SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
			1	sequence		
19698	50066	Α	19813	160	1002	KRLGSSAISMSKYKLIMLR\HGE
				ĺ		GAWNKENRFCSWVDQ\KLNSE
						GMEEARNCGKQLKALNFEFDL
						VFTSVLNRAIPTARL\IL\EELGQ
						EWVPVESSWRLNERH\YGAL\I
						GLNREQ\MA\LNHGE\EQVRL\W
						RRSYNVTP\PPIEE\SHPY\YQEIY
1		l				NRPGGIKVCDVP\LDQLPRSES\
						LKDVL\ERFLPYW\NERIAPEV\L
				1		RG\KTILISAHGK*AVGALLKHL
		l				GRYPSGLKTSINIYSFLLGVPILL
						\ELD\ENLRAVGPH\QFLGDQEA
						QAAIKKVEDQGKVKQAKK
19699	50067	Α	19814	200	1155	NHYISLFQYSQDTCKLLFRNQM
1		1				TISQIFLCIFSGVLMVFFLIITTSQ
1						VSFTNFFTGLKIFFLVIKFWVSE
1						FLHHQTGTYIHIYLLFISMKSFF
1	i			l		LYASPLTFMILSHFQASLSSIFGF
1						CSSLFRQSSFFSNILFF*VYTQSY
						REFRTYYETIPCQFDITFVIFKM
						CCILILC\FDLLNRRNGSIIIQKFG
			l			IYGLVKIFIF*IFTNIHLLQ*FFQV
		l				VFILQFFNIVKKSFLQPAGSKR*
			1	1		KFFSKVRFFSFL*F*KWEARSSA
1						SKLFLLIY**VYR/IFSFLLVFPV
		l				V/CPVGWYLLFFFFLYLFFLFLN
						LSKNSFYSQWYWFKR
19700	50068	A	19815	I	168	RPWLHLHGRPGPWPAETPPPQD
		1				PEQAPPPGRAGPAGEAEGLSCV
		_				/P*APSRRPRTM
19701	50069	A	19816	1	531	PVGQGARQDDSSSSASPSVRAT
		1				SQGGHLMSDLFNKLVMRRKGI
		1				SGKGPGAGEGPGGAFVRVSDSI
						PPLPPPQQPQAEEDEDDWES*G
		1				AP*HLPPPDPDLGRCSDMDTAR
						TSCSDLLPWEGVTEPAVCGDQL
						QGAEGWLEATQLGRGLVCLYF
						MGGRLHPACATVFLRGFQRKR
						HTNQ
19702	50070	В	19817	61	969	
19703	50071	Α	19818	60	436	RGSREYLHTGCPRSGGCRSQCP
						GPPTQSPKVRPPQRGAPRLRGG
	l					DFPPSRLLDTVSFPSPA*AAFPP
1	İ					CPVPHLPAPVQGAPREVVDPSG
	l					GWATLLESIRRAGGIGKAKLRS
L		_				MKERKLEKKKQKEQ
19704	50072	В	19819	575	1666	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codnn for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	l	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
19705	50073	Α	19820	515	1110	MFHPTCLTCPAFANRPHVHCRP
						GAPAFAPSAPGTIPELPTFHTEV
	1					SPSHSRQTLQDGVT*TAPPPPPP
						PPPPPPAPEVLGQLQPPLPTLQP
	1	1				RPLLGQGAREGRTAAAA/PSPS/
		1				GPGSSQGSGRPLRWLGHSARV
	1					HPPSWGHRQGLAAQHERKRNV
						EKKKQKEQEQVRATSQGGHLM
		l				SDLFNKLVMRRKGHLWEKDPG
						AW
19706	50074	Λ	19821	1	191	MQK*ITAWAPAPMKIKIIASPER
		1				KYSVWIGGSIWPQLST/FQQMW
						ISKQEYDESGPSIVHRKCF
19707	50075	С	19822	791	970	
19708	50076	A	19823	13	1260	INPPPLSRRCQLSHSVLPPLRRR
						VSLPVAMEEEIAALVIDNGSGM
		1				CKAGFAGDDAPRAVFPSIVGRP
				ŀ		RHQGVMVG\MGQK\DSYVGDE
						AQSKRGILTLKYPIEHGIVTNW
						DDMEK\IWHHTFYNELRVAPEE
		l				HPVLLTEAPLNPKANREKMTQ\
		1				IMFETFNTPAMY\VA\IQAVLSL*
1	1	1				\ASGRTTGIVMDSG\DGVTHTV\ PILRGLPHCSTPFLRLGPGLARD
	1.			i		
1	1	ı		1		LTDYLMKILT\ERGYSFTTHGPS GKTFRNIKGEACATSPLDFEO\E
ŀ	1			1		MGT\AASSSSLEKSYELPDGOVI
ļ		1				TIGNERFRCPEALFOPSFLGMES
l		1				CGIHETTFNSIMKCDVDIRKDL
		ı		l		YANT\ALSGGTTMDPG\IADRM
		l				QK\EI\TALAAPAP*KIR\IIAPPER
1		1				K\YSVWIGGSILASLSTFQQMWI
		l				SKOEYDESGPSI\VHRKCF
19709	50077	A	19824	93	534	SKYET DESGESTVIKKET
19709	130077	Ι~	17024	93	234	

SEO ID	ISEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	eodon for last amino acid	
	sequence	1	09/540,217	eodon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
19710	50078	A	19825	i	1462	 WEVSAOPSPAVPRRAPLRGLSA
.,,,,	1000.0	Γ.		[TRSAAGTMREIVHIQ\AGQCGN
		1		[QIGAKFWEVISDEH\GIDPTGSY
						HGDSDLOLERINVYYNEAAGN
				1		KYVPRAILVDLEPGS\MDSVRS
l	ŀ					GPFGQIFRPDNFVFGQSGAGNN
i		1		1		WAKGHYTEGAELVDSVL\DVV
	l	1	1			RKESESCDCLQG\FQLTHSLGG
	l	1		1		
		1				RHGVPGWGTLLHQQGSGEEYP
			l			DRIHETPFSVH/VPSPKVFKTRL
		ŀ				LEPLQRHTSRFHHLVENT\VKP
		1	ŀ			YSIDNEALY\YICLPTAES*PTPT
1		į.				YG\ALNPPGCSATMSGVTT\CLR
1						FP/GGQLNADLRKLA\VNMVPF
	1	1	1			PRLHFFMPGFAPLTSRGSQQYR
	1	1	1			ALTVPE\LTQQMFDSKKMIA/AF
	1	1				CDPPPTGR\YLTVAAIFRGRMFH
	1	1		i		GRRWDEADGSNVAGTRNRQVI
	1					SWEWVP\NNVKTA\VC\DIPPPG
				1	Į.	AWKMS\ATFIGNQPRPSRRLFK
				1		RIYE\QF\TAMFPAQGPSLHWLH
ŀ			ļ	1		GRRAMDGDGSSPEAREQHERP
				l .		WCPEYQQYPGTPRPT
19711	50079	Α	19826	2	180	
19712	50080	Α	19827	28	185	
19713	50081	Α	19828	179	307	
19714	50082	Α	19829	438	663	
19715	50083	С	19830	99	335	
19716	50084	Α	19831	1	320	AYADQL*LRRHKSSSSSSSSSSSS
1				ł		SSSSSSSPLAP*LGSGDLP*EIN
1	i			1		PPSSCSLLREKDPPTTSGPQ\PTS
		1		ł		PRNISPISNPDPTGNRTVQLTWQ
		<u> </u>				PLPQPLELWPKAL
19717	50085	A	19832	578	753	LCTPTPFPLFWKTVRKYSSNNQ
	i	1		ı	1	KGE*NTVLMEVCPRSPRTN*KD
		1	1	1		SQ*PFELLTKMTSQGSDISGDLP
1	1	1	Ì	1	i	WEINPLSSCSLLHEKDPPTTSGP
i		1			i	QTDQPKKHLTNFKSETKETHFI
1		1		l .	i	RGPKTPVLVTDWEGRLPLVFN
	ŀ	1				HSRDASLIIHPRFRGVRPRRDAC
		1				LGPSPLAASPAFLEEGQVPQPLL
1	1	1		I		SMSLTPSLLFWRRGKKPSTPSSP
1		1		1	1	LAASPAFLEEGQVPQPHISVPRS
		1	1	i	1	LISTPOPLITLHPDPFPAFLEDSK
1		1		1		EVLKQQPKGRIKHCADGGMSK
					1	EPKNQLKGLPVTKAGNIHGIND
19718	50086	Α	19833	95	259	SHRPSQ*VLQLIKVAHPELFVPP
1		1		1	i	SGFVVSLTSGMKLQTLTTREW
		1		1		MRILLIFWNG
19719	50087	Α	19834	1	939	
19720	50088	A	19835	391 .	792	
		_				

SEQ ID NO:	of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19721	50089	Α	19836	l .	1317	
19722	50090	В	19837	1	1665	
19723	50091	Α	19838	573	902	YSCLLILIRKITQNSVEVLGRRK
1		ĺ		ŀ		FLGGGMEREWVMFL/EGCFKR
1		1				D*GQRGNQFQIRVTAPNFMCV
		1				CVKRPPNRLCVSNKAVYFTWV
						QVGFQIFEKPEPIEEICKVCWRP
19724	50092	Α	19839	1802	2229	GGGAEAEEELGPSSAWRGAAC
İ						PCPRKAGLVAKAEGPRQASLR
i				ŀ		GLTPLKRECIIREASLQ*LNTK/V
				1		KAAFPVRDRRWSFGFTDKTCLF
				ŀ		CLGSEIGEVFLGLVGLRT*GRR
				l		WIFLMEQRAGGQGIDLPREVPR
						SKSGHQISLVSI
19725	50093	Α	19840	19	4153	PPDPLPGLPCPPGGPPLPAFGGG
			1	l		WGGARGSWHWSSRACSRRRR
						LVHAPRAPLLPRAAAEKAKRP
				l		AGARQMGLKARRAAGAAGGG
				l		GDGGGGGGAANPAGGDAAA
				i		AGDEERKVGLAPGDVEQVTLA LGAGADKDGTLLLEGGGRDEG
				1		QRRTPQGIGLLAKTPLSRPVKR
				ŀ		NNAKYRRIOTLIYDALERPRGW
				1		ALLYH\ALVFLIVLG\CLILAVL\
						TTFKEYETVSGDWLLLLETFAIF
						IFGAEFALRIWAAGCCCR
19726	50094	A	19841	355	640	ILDYVFSSSHLFQSKLLGRRGR
19720	30074	n	17041	1555	040	ASHGTKL*AGPG\GGGEVIKGL*
				1		GGGAEAEEELGPSSAWOGAAC
						SFPRKAGLAAKGEGPRQASLH
İ	i i					GLTPLKCG
19727	50095	С	19842	55	189	
19728	50096	В	19843	96	401	
19729	50097	С	19844	558	725	
19730	50098	С	19845	448	540	
19731	50099	С	19846	140	334	
19732	50100	Α	19847	362	710	ILGGRKLRLEKSLGCAAQGGG
				l		AL/YEEWLELRNGCLCCS\VKD
				l		NGL*/RAIENLMQKKGKF\DYIL
		l				LETTGFADPGAVASMFWVDAE
1				l		LGSDIYLDGIITIVDSKYGLKHL
		L				AEEKPDGLIQ
19733	50101	A	19848	181	543	
19734	50102	A	19849	1	594	
19735	50103	В	19850	29	746	PROUGHT COOPY A PRI PARTY
19736	50104	Α	19851	45	362	EEQHSMLGSGFKAERLRVNLR
1				1	1	LVINRLKLLE/KKDERARIRVEH
1		1	[IIREDYLVEAMEILELYCDLLLA
		1	İ			RFGLIQSMKELDSGLAESVSTLI
						WAAPRLQSEVAELKIVA

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19737	50105	A	19852	344	951	EEOHSMLGSGFKAEHLRVNLR LVINRLELL/EGKKKKTELAQ KAGKEIADYLAAGKDERARIR VEHIIREDYFVEAMEILELYCDL LLARFGLIOSMKELDSGLAESV STLILAASRLQSEVEGFPNIYSS* IPSNSPIILNL*MAIKGCKNY/RL LHQIVVPGPSQKPLQNFLLDLR
		ļ.,			1000	LPWTTLWPIFGLEGKIPLWERIK
19738 19739	50106	A	19853	1	1077	
	50107	A	19854 19855	1	3426	
19740 19741	50108	A	19856	1	942	
19741	50110	A	19857	342	1499	EEOHSMLGSGFKAERLRVNLR
19743	50111	A	19858	2	255	LVINRLKLLEKKKTELAQKARK EIADYLAAGKDERARIRVEHIR EDYLVEAMEILELYCDL.CLA RLGALYSSY*KELDSGLAISSYST LIWAAPRLOSEVAIELKIVADQ LCAKYSKEYGKLCRTNQIGTV NDRLMHKLLSVGTPPIQIL VERY LEIEAKNYNYVEPDSVVMAZ LEIEAKNYNYVEPDSVVMAZ LEIEAKNYNYVEPDSVVMAZ ENWKEGSGGFTAPVGGPDOT VPMPMPMPMPMPSANTPSYP LPKGFSDFNCLPMGTYQAFPNI HPPQIPATSPIRIESYRWTTOK KEYSIFLAQICLGPOPKARRPF AKFPISRPADNF*QLLFLPELPSV PDTLPTASAGASTFRILKDIDF DDLSRRFEGAGKRRT GCISTSRLGSWFTTLRILDKIS
19743	30111			2		*RSYSSAPASCLISIVKSASD*RA RAPTRGSYGGPLLRLSSSSSLAS GRCVTSRASLRPRS
19744	50112	Α	19859	1	276	
19745	50113	А	19860	3	151	GAVPAVRLGGPLHVHLPHAR*P SNLSALQFYQDGSLRWWQTVS *RAASRSPPTRPVTIKSVCTPILP GWLSSLVANCIVKSASD
19746	50114	В	19861	26	386	DCVIATDAEVLGAPVKGKRRG RGPKGDKASDPEAGVARGIDF HHVSAVLNFDLPPIPEAYIHRA GR**CDGPGICMVGTLRDLGCA GQSLRVGDASCTVFPCRTARAN NPGIVLTFVLPTEQFHLCKI
1.7/7/	120112	12	1.7002	12-	1***	L

SEO ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
19748	50116	Λ	19863	2	1839	ARGQRVRAALLSSAMEDSEAL
						GFEHMGLDPRLLQAVTDLGWS
	ŀ	1				RPTLIQEKAIPLALEGKDL\LAR
	1		l			ARTGSGKTAAYAIPMLQLLLHR
	İ	ŀ		i		K\RQVRW*NRQ*EGLVLVPTKE
						L\ARQAQS\LIQQLATYCCSGMS
	Į.					ELANVSAC*KTQSLRELCLMEK
	Ì					PD\VVVGTPS\RILSHFAARQPET
			1			FVTPWSFLVVERSLTFFFPFGFE
ļ						EELKKSSSGKAESLAPDFNKAF
	į.					LMSATFNEDVQA\LKELILHNP\
	l					VTLKLQESQLPGARPVTAVSGG
İ				1		L*DLREDKFLLLYALLKLFIDSG
		1				ASLWLFCSTL*EREFTGLRLFL
						WEQFQ/LSPTCVLNGELPLRSR
						VPHHL/QQFNQGFYGLCHRQL/
	i					NAEVLGAPVQGQASGPRAQRG
						Q/VPLDPEAGVARGIDFHHCVC
	i					VLNF*SFPPTPEA\YIHRAGR**C
						DGPGICMDSTR*QPRA*S*PFVL
						PTEQFH/CRQD*GASQWREQGA P/SLLPYKFGMEEIEGFRYR*GV
						HPQDAMRSVTKQAIREARL\SLI KEELLHSEKLK\TYFGROPLGD
}						LOA/LRHGPYLCTPQLVEAPTW
						GHVPDLPGSSCFSVALGAPFTK
						KREEACLPSCRKAOESKVPRTP
1	1					LRSFKHKGKKFRPDSQALREVV
19749	50117	A	19864	3	378	TTTKFAGRRPKVTVLGOP/KAA
15745	150117	ľ	17004	ľ	5,0	PSVTLFPPSSEELQANKATLVCL
						ISDFYPGAVTVAWKRGSSPVKA
		1				GVETTTPSKQSNNKYAASSYLS
		ĺ				LTPEQWKSHKSYSCOVTHEGST
						VEKTVAPTEYLLRVY
19750	50118	A	19865	1	546	MAWTPLLLLLLSHCTGSLSQPV
						LTOPPSSSASPGESARLTCTLPS
						DINVGSYNIYWYQQKPGSPPRY
						LLYYYSDSDKGQGSGVPSRFSG
				I		SKDASANTGILLISGLQSEDEAD
						YY/CGCFTVFWSTF*VLVPEHQ
	1	1	1			QSWLPLWTPGVVSLLV/CLVPS
						FVPPPLTKVPSSLSSPVKESAILA
	1	1	1			VDIH

NO: of peptide sequence s	SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
19751 30119	NO:		hod				
19751 30119 A 19866 2 838		sequence		09/540,217		of peptide sequence	deletion, \=possible nucleotide insertion)
GSLSQPVLTQPRSSASPGESAR					sequence		
GSLSQPVLTQPRSSASPGESAR	10751	50110	Α_	10866	2	979	RVRVSTMAWTPLLILLISHCT
LTCTL'PSDINVGINNIYWYQOK SGSPPRYLLYYYSDSYKGLGSG VPSRFSGSKDASANTGILLISGL QSDDEGUPYCATWDSSLTGQ VPGGGDTKLTRF*GOPKACPP GVTLVPNPPS:RSFQAQQGPQL VMSS*SDETLFGSPLNSCFW:A DSQPPFKAGNETHTPPKQSNN QVRGPAGYLSLTAIEQWEVPTE SYSCQVTH*RGAPWEKTVGPY RMFHRFLNPSPPHHGMT 19752 50120 A 19867 1338 1854 NSETREHNIRVYPQRETSGGTD GWKSKQPE1-TRRQLVQSWAK S*NQPKLPSSPH*ELPWVTPSA RNFRSGPYSPPPPPPQFLPSSHL SSLHFYSPFVSYTSFDLYSSSYH SYLMDEDTVEFKELRSSQKVIG HSFTGFQTILSAMPYDRGDGKII ELLPRKAQTFPVVRT GSTYSELLSCTACVVTALHLAQ QRRHHLIGGLASRTDAPEQLA VGAPVQPRPLPAPAGQAU.VG HAHVVEGGPPGSGGPGEGAI ARGPGAAAAAGAGPGAPRRR LQASAGPCSRSSEPGRRSAPRA APPAPSAGPHVAPFSRPAAGS PPSRPPPPPGIPTGGR TRQVYSGGVRTPPCQSHPHRPR SSCRPPPPRRRPSSRRRGLSP RRAPAHWSSRSTRPAWWAPSR RHAPRPWSRGPASG*GSVYFPIGLE LPLALEPLPVHHGGVHVCGREG VGLVQEGDSHSGEWS*RSAWG STSLRAAPRSGGRPPAGGGWS*	19731	30119	^	17000	ľ	858	
SGSPPRYLLTYYSDSYKGLGSG	l				l		
		1					
QSDDEGIDYYCATWDSSLTGQ							
VFGGGD/TKLTRP*GOPKACPP							
GVTL/PNPPS/SRFQAQQPQL							
VMSS*SDELTPGSPLNSCPWKiA DSQPPKAGVLNSCPWKiA DSQPPKAGVLSLTAIEQWEVPTE SYSCQVTH*RCAPWEKTVGPY RMFHRELNSSPHGMT SYSCQVTH*RCAPWEKTVGPY RMFHRELNSSPHGMT SYSCQVTH*RCAPWEKTVGPY RMFHRELNSSPHGMT SYSCQVTH*RCAPWEKTVGPY RMFHRELNSSPHGMT SYSCQVTG*PSPHFHGMT SYSCQVTG*PSPHFHGMT SYSCQVTG*PSPHFPPPQFQFLSGGTD GWSKQPE*Q*PSPHFPPPQFQFLSGGTD GWSKQPE*Q*PSPHPPPPQFQFLSSHL SSLHFYSFFVSYTSPLYSSSYH SYLMDEDTVEPKELRSSQKVIG HSFIGFQFTLSANPYDRGDGKII ELLPRKAQTFPVYRT SYLMDEDTVEPKELRSSQKVIG HSFIGFQFTLSANPYDRGDGKII ELLPRKAQTFPVYRT GRIFFLIGHT GWRIFFLIGHT GRIFFLIGHT					ì		
DSQPPEKAGNETTHTPPKQSNN QVRCPAGYLSLTALEQWEVPTE SYSCQVTH*RGAFWEKTVGFV RMFHIRFLNFSPHHGMT	1						
OVROPAGYLSLTAEGWEVPTE							
SYSCQVTH-RGAPWERTVGPY							
RMFHREL/PSPPHHGMT			1				
19752							
GWKSKQPE*L*RRQLVQSWAK S*NQPKLPSSPH*ELPWVTPSA RNFRSGPYSPPPPPPQPLFSSHL SSLHFYSFVSYTSFDLYSSSYH SYLMDEDTVEPKELRSSQKVIG HSTGGPTLSANPYDRGDGKII ELLPRKAQTPPVVRT GGTYSSLLSGTAGVVTALHLAQ QRRHHLLGGLASRHDAPEQLA VGAPVQPRPLPAPAGAQALVG HAHVVEGGPPGSGPGEGAI ARGPGAAAAAGAGPGAPRRR LQASAGPCSRSSEPGRSAPRA APPAFSAGPHVAFFSRRPAAGS PPRSPPPPPGIFTGGR 19754 50122 A 19869 20 507 TRQVYSGGVRTPPCOSHPHRPR SSCRPPPPRRPRSSRRRGLSP RRAPAHWSSRSTRPAWWAPSR RHAPRPWSGPASG*CSVYPFI LPLALFPLPVHHGGVHVCGREG VGLVQEGDSHSGEWS*RSAWG STSLRAAPRSGGRPPAGGGWS*RSAWG STSLRAAPRGGGRPAGGGWS*RSAWG STSLRAAPRGGGRPAGGGWS*RSAWG STSLRAAPRGGGRPAGGGWS*RSAWG STSLRAAPRGGGRPAGGGWS*RSAWG STSLRAAPRGGGRPAGGGWS*RSAWG STSLRAAPRGGGRPAGGGWS*RSAWG STSLRAAPRGGGRPAGGGWS*RSAWG STSLRAAPRGGGRPAGGGWS*RSAWG STSLRAAPRGGGRPAGGGWS*RSAWG STSLRAAPRGGGGPPAGGGWS*RSAWG STSLRAAPRGGGGPPAGGGWS*RSAWG STSLRAAPRGGGRPAGGGWS*RSAWG STSLRAAPRGGGAPAGGGWS*RSAWG STSLRAAPRGGGAPAGGGWS*RSAWG STSLRAAPRGGGAPAGGGWS*RSAWG STSLRAAPRGGGAPAGGGWS*RSAWG STSLRAAPRGGGGPPAGGGWS*RSAWG STSLRAAPRGGGAPAGGGWS*RSAWG STSLRAAPRGGGAPAGGGWS*RSAWG STSLRAAPRGGGAPAGGGWS*RSAWG STSLRAAPRGGGAPAGGGWS*RSAWG STSLRAAPRGGGAPAGGGWS*RSAWG STSLRAAPRGGGAPAGGGWS*RSAWG STSLRAAPRGGGAPAGGGWS*RSAWG STSLRAAPGGGGAPAGGGWS*RSAWG STSLRAAPAGGGAPAGGGWS*RSAWG STSLRAAPGGGGAPAGGGWS*RSAWG STSLRAAPAGGGAPAGGGWS*RSAWG STSLRAAPAGGGAPAGGGWS*RSAWG STSLRAAPAGGGAPAGGGWS*RSAWG STSLRAAAPGGGAPAGGGWS*RSAWG STSLRAAAPGGGAPAGGGWS*RSAWG STSLRAAAPGGGAPAGGGWS*RA	19752	50120	Α-	19867	1338	1854	
S*NQPKLPSSPH*ELPW\TPSA	17732	30120	ľ`	1,500,	1.550	1.00	
RNFRSCPVSPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	1						
SSLHFYSFVSYTSPDLYSSSYH							
SYLMDEDTVEPKELRSSQKVIG	1						
HSFTGFQPTLSANPYDRGDGKII 19753 50121 A 19868 1 500 GSTYSELLSGTACVVTALHLAQ QRRHHLLGGLASRHDAPEQLA VGAPYQPRPLPAPAGAQALVG HAHVVEGGPPGSGGPGEGAI ARGPGAAAAAGAGPGAPRRR LQASAGPCSRSSPGRSAPRA APPAPSAGPHVAFPSRRPAAGS PPRSRPPPPGIFTGGR 19754 50122 A 19869 20 507 TRQVYSGGVRTPPCOSHPHRPR SSCRPPPPRRPRSSRRRGLSP RRAPAHWSSRSTRPAWWAPSR RHAPRPWSGDASG~SCVYFPI LPLALFPLPVHHGGVHVCGREG VGLVQEGDSHSGEWS*RSAWG STSLRAAPRSGGRPPAGGGWS STSLRAAPRSGGRPPAGGGWS							
	i .						
QRRHHLLGGLASRIDAPEQLA VGAPVQPRPLPAPAGAQALVG HAHVVVEGGPPGSGGPGGA1 ARGPGAAAAAGAGACAPRRFR LQASAGPCASRSEPGRRSAPRA APPAPSAGPHVAFPSRRPAAGS PPRSRPPPPPGITTGGR TRQVYSGGVRTPPCQSHPHRPR SSCRPPPPRRPRSSRRRGLSP RRAPAHWSRSTRPAWWAPSR RHAPRPPWSGPASG*CSVYPFI LPLALPPLPVHHGGVHVCGREG VGLVQEGDSHSGEWS*RSAWG STSLRAAPRSGGRPPAGGGWR STSLRAAPRSGGRPPAGGGWR							
19754 30122 A 19869 20 507 TRQVYSGGVRTPAPSAGSAGS-SVS-FRAPAHRAPPWSFOR-SGG*SCRPPPRRRRBLPASSAG*SCRPPPPRRRPRDAGS*SCRPPPPRRRPSSRRRGLSP-RRAPAHRAPPWSFOR-SGG*SCRPPPPRRRPPSSGG*SG*SVS-FR-RHAPRPWSFOR-SGG*CSVVFPI-LPLALFPLPVHHGGVHVCGREG-VGLVQEGDSHSGEWS*RSAWG-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-SGGRPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPPAGGGWR-STSLRAAPRSGGRPAGGGWR-STSLRAAPRGGGWR-STSLRAAPRSGGRPAGGGWR-STSLRAAPRSGGRPAGGGWR-STSLRAAPRGGWR-STSLRAAPRGGWR-STSLRAAPRGGWR-STSLRAAPRGGWR-STSLRAAPRGGWR-STSLRAAPRGGWR-STSLRAAPRGGWR-STSLRAAPRGGWR-STSLRAAPRGGWR-STSLRAATGGWR-ST-ST-ST-ST-ST-ST-ST-ST-ST-ST-ST-ST-ST-	19753	50121	Α	19868	1	500	
HAHVVVEGGP/PGSGGPGEGAI ARGPGAAAAAGAGPCAPRRRR LQASAGPCASPEGPGRSAPRA LQASAGPCSRSEPGRRSAPRA APPAPSAGPHVAPFSRRPAAGS PPRSRPPPPPGIPTGGG 19754 50122 A 19869 20 507 TRQVYSGGVRTPPCQSHPHRPR SSCRPPPPPRRFRSSRRRRGLSP RRAPAHWSSRSTRPAWWAPSR RHAPRPPWSFGASG*CSVVFPI LPLALPPLPVHHGGVHVCGREG VGLVQEGDSHSGEWS*RSAWG STSLRAAPRSGGRPPAGGGWR STSLRAAPRSGGRPPAGGGWR			l				ORRHHLLGGLASRHDAPEQLA
ARGPGAAAAAGAGPGAPRRRR LQASAGPCSRSSEPGRRSAPRA APPASAGPHVAFPSRRPAAGS PPRSRPPPPPGITTGGR 19754 30122 A 19869 20 507 TRQVYSGGVXTPPCOSHPHRPR SSCRPPPPRRPRSSRRRGLSP RRAPAHWSSRSTRPAWWAPSR RHAPRPWSGPASG*GSVYPFI LPLALEPLPVHHGGVHVCGREG VGLVQEGDSHSGEWS*RSAWG STSLRAAPRSGGRPPAGGGWR STSLRAAPRSGGRPPAGGGWR	1						VGAPVQPRPLPAPAGAQALVG
LQASAGPCSRSSEPGRRSAPRA APPAPSAGPHVAFPSRRPAAGS PPRSRPPPPEGFTGGR 19754 30122 A 19869 20 507 TRQVYSGGVRTPPCQSHPHRPR SSCRPPPPPRRFSSRRRRGLSP RRAPAHWSSRSTRRAWMAPSR RHAPRPWSPGPASG*CSVVFPI LPLALFPLPVHHGGVHVCGREG VGLVQEGDSHSGEWS*RSAWG STSLRAAPRSGGRPPAGGGWR STSLRAAPRSGGRPPAGGGWR							HAHVVVEGGP/PGSGGPGEGAI
APPAPSAGPHVAFPSRRPAAGS PPRSRPPPPPGIPTGGR 19754 50122 A 19869 20 507 TRQVYSGGVRTPPCQSHPHRPR SSCRPPPPPRRFRSSRRRRGLSP RRAPAHWSSRSTRPAWWAPSR RHAPRPPWSFQPASG*CSVVFPI LPLALFPLPVHHGGVHVCGREG VGLVQEGDSHSGEWS*RSAWG STSLRAAPRSGGRPPAGGGWR	1						ARGPGAAAAAGAGPGAPRRRR
PPRSRPPPPGITTGGR 19754 50122 A 19869 20 507 TRQVYSGGVRTPPCQSHPHRPR SSCRPPPPRRRPSSRRRGLSP RRAPAHWSSRSTRPAWWAPSR RHAPRPPWSGPASA'GSVVFPI LPLALFPLPVHHGGVHVCGREG VGLVQEGDSHSGEWS'RSAWG STSLRAAPRSGGRPPAGGGWR					1		LQASAGPCSRSSEPGRRSAPRA
19754 50122 A 19869 20 507 TRQVYSGGVRTPPCQSHPHRPR SSCRPPPPPRRRSSRRRRGLSP RRAPAHWSSRSTRPAWMAPSR RHAPRPPWSPGPASG*CSVYFPI LPLALFPLPVHHGGVHVCGREG VGLVQEGDSHSGEWS*RSAWG STSLRAAPRSGGRPPAGGGWR							APPAPSAGPHVAFPSRRPAAGS
SSCRPPPPRRRSSRRRGLSP RRAPAHWSSRSTRPAWWAPSR RHAPRPWSPGPASG*CSVYPFI LPLALPPLPVHHGGVHVCGREG VGLVQEGDSHSGEWS*RSAWG STSLRAAPRSGGRPPAGGGWR STSLRAAPRSGGRPPAGGGWR	1						PPRSRPPPPPGIPTGGR
RRAPAHWSSRSTRPAWWAPSR RHAPRPPWSOPASG*CSVYFPI LPLALFPLPVHHGGVHVCGREG VGLVQEGDSHSGEWS*RSAWG STSLRAAPRSGGRPPAGGGWR	19754	50122	Α	19869	20	507	TRQVYSGGVRTPPCQSHPHRPR
RHAPRPPWSPGPASG*CSVYFPI LPLALFPLPVHHGGVHVCGREG VGLVQEGDSHSGEWS*RSAWG STSLRAAPRSGGPPAGGGWR	1			1			SSCRPPPPPRRPRSSRRRRGLSP
LPLALEPLPVHHGGVHVCGREG VGLVQEGDSHSGEWS*RSAWG STSLRAAPRSGGRPPAGGGWR		1	1	l	1		RRAPAHWSSRSTRPAWWAPSR
VGLVQEGDSHSGEWS*RSAWG STSLRAAPRSGGRPPAGGGWR			ĺ	1	1		RHAPRPPWSPGPASG*CSVYFPI
STSLRAAPRSGGRPPAGGGWR	1	1		1			LPLALFPLPVHHGGVHVCGREG
				1	l		VGLVQEGDSHSGEWS*RSAWG
1			l			1	STSLRAAPRSGGRPPAGGGWR
YTRPPSRC	1	Ì	l	1			YTRPPSRRC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last eodon for last amino acid of peptide sequence	Amino acid sequence (X-Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19755	50123	A	19870	236	1191	GSGRIPGRAGL ECPCPAFOKSR LSPASGSAGPRGASPSAVPGGR, RPCVPAFPASNPPPVAAVPGFW VTCWGKGLQGEGKAPRAPHA GTTORISPGSAPTIGLSPPAPSR *RARRSPETPYCHORAGPPPP DGAVQRQGPGCRAPSASRPGGS ARARRRWPAARPPGCPARPG PRGGRPRRRSPPPAGGRARAPP RGHGTAPCAAAAPPPRGLGRP ADAPEQ/PRCRCARPAPPLPAPA GAGALVGHAHLLLKAALGHDF TELWATHEVIPKMRWGQSQC QRGGPSSHTPDLSA
19756	50124	A	19871	24	286	LRGQKVLLLGDRARLSQKKKE RKREREREREGHGRNGR/RRNG QGRGPEGQR*NERTGQERTGH GREGRKEGRKEGRKEGRNERE
19757	50125	Α	19872	43	373	PRFTDENLEMCTVIQSVQCYHR SWHJHSSPPEPAPHHQSPPAHSP VLCWFRRLGGGEDWAPSSGGR AVWRSHCSCFCCCSSSCCSCSQ SGKRTAAAPWPTTSPAPSRSCC A
19758	50126	А	19873	3387	4083	АGRSALPVDAVQVQAEGLWPP AVLLHHHHPHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
19759	50127	A	19874	3	411	
19760	50128	A	19875	1	1095	
19761 19762	50129	A A	19876	1	471 554	FRGRLASPFRPVPMEALGKLKO
						FROKLASFREY PMEALOLICKY FDAYPKTLEDFRVKTGGGATV TIVSGLLMLLLFLSELQYYLTTE //KGRGLMRGRGLAF-E*DL*G WEWGRRGLGLSLTEVALPQVH PELYVDKSRGDKLKINIDVLFP HMPCAYLSIDAMDV AGEQQLD VEHNLFKGRLDKDGIPVSSEAE RHVLSFVVSAD
19763	50131	В	19878	1116	1274	
19764	50132	Α	19879	28	389	

SEQ ID NO:	of peptide		SEQ ID NO: in USSN	location of first	codon for last amino acid	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
19765	50133	A	19880	75	448	
19766	50134	Α	19881	276	830	QEDSCPLHPLSGIPFRRFQPTPE
						EAGAVVPGEGPTHDQGPSSALT
		1				RR*ACQGPLHLARTTAEPGHAH
						PWH*RWQRYMGKLGRDLEKV
			i			CPVWSSVACSSPGLSWAGKTE
			İ			AKTSLEGGNSASASASSWAWG
		ľ				RSSLAPVRDILGSREFSGLLEGT
						FVLSVTLSADFGIGTWVDLGKV
		ŀ		l		TGSSSKEGRL
19767	50135	Α	19882	223	1269	APVTKRKEVFAKDSKGSALDA
1						GRDPKRPALPETLCESGWASNT
						APTAPPQPGWCLCGKDFKSSCQ
						TPGREKERRLATMHGSCSFLML
						LLPLLLLVATTGPVGALTDEE
			İ			KRLMVELHNLYRAQVSPPASD
						MLHMRWDEELAAFAKAYARQ
						CVWGHNKERGRRGENLFAITD
1						EGMDVPLAMEEWHHEA*/DTT
1						TSAP/HSCSPGQMCGRYTQVVW
						AKTERIGCGSH\SCEKLQGVEET
						NIELLVCNYEPPGNVKGKRPYQ
						EGTPGSQCPSGYHCKNSLCEPI
			ŀ			GSPEDAQDLPYLVTEAPSFRAT
				1		EASDSMKMGAEGPDKPSVVSG
		1				LNSGPGHVWGPLLGLLLLPPLV
						LAGIF
19768	50136	Α	19883	2	281	FVPALGSSAVMLSRSRCVSRAF
				1		SRSLSAFQ/KGVSLCQGPGYPNS
						RKVVINNSVFSVRFFRTTAVCK
1				1		DDLVTVKTPAFAESVTEGDVR
		L	<u></u>		L	WEKGKI

SEO ID	SEQ ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	eodon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide	of peptide sequence	deletion, \-possible nucleotide inscrtion)
				sequence		
11000		<u> </u>			Lann	Management of the second of the second
19769	50137	Α	19884	I	1320	MPAVTILKPNLKQIILGLKAAE
						VSSLPPSIVLDAKEITTQITRQIL
						KGNCPLGRHSLPGVSLCQGPGY
						PNSRKVVINNSVFSVRFFRTTTV
						CKYDLVTVKTPAFAEPVTEGD
						VRWEKAVGDTVAEDEVVCEIE
						TDKTLVQVPSPANGMIEALFVP
	1		i .			DGGKVEGGTPLFTLRKTGAAP
	l					AKAKPAEAPAAAAPKAEPIAA
						AVPPRAAPIPT/QMPPVPSPSQPP
						SSKPVSAEAQNTCA\MLTIFNEI
					1	DVSNIQKMRARHKEAFLKKHN
						LKLGFMSASVKASAFALQEQP
1						VVNAVIDDITKEVVYRDYIDIS
						VAVATPQGLVVPVIRNVEAMN
						YADIEOTITELGEKARKNEFAIE
1						DMDGGTFTISNGGVFGSLF/GTP
						IINPP\SAILGMHGIFDKPVAIGG
1						KVEVQPMMYVALTYDHRLIDG
1						REAVTFLRKIKAAVEDPRVLLF
19770	50138	Α	19885	1	1559	MESEALVVCINHCMAVNYGMI
				1		YORGSSNMNILSLSLKHPEKTGI
						SPTANHGISDLQEGEAACGSLR
			l			TPLVGRRVLRPAPLPVVVRPYI
						RCPPALGSSAVMLSRSRCVSRA
					i	FSRSLSAFOKGNCPLGRRSLPED
		l				DLVTVKTPAFAESVTEGDVRW
		l				EKAVGDTVAEDEVVCEIETDKT
		l	l			SVQVPSPANGVIEALLVPDGGK
		l				VEGGTPLFTLRKTGAAPAKAKP
		l				AEAPAAAAPKAEPTAAAVPPPA
		l	İ			APIPTOMPPVPSPSQPPSGKPVS
		l				AVKPTVAPPLAEPGAGKGLRSE
		l				HREKMNR\MRQRIAQRLKEAQ
		l				NTCAMLTTFNEIDMSNIOEMRA
						RHKEAFL\RKLKLKLRLMSAIV
			ļ.			EGSA\FALQE\KPLLMEGIDDTT
		l		l		KEVVYRDYIDISVAVAHPRGLV
		İ		l		VPVIRNVEAMNFADIERTITELG
		l		l		EKARKNELAIEDMDGGTFTISN
1	l	l		l		GGVFGSLFGTPIINPPQSAILGM
		İ		1		HGIFDRPVAIGGKVEVRPMMY
		l		l		VALTYDHRLIDGREAVTFLRKI
L	1	ı	I	ı	I	KAAVEDPRVLLLDL
19771	50139	В	19886	239	3045	

SEO ID	SEO ID NO:	Mat	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
19772	50140	A	19887	3	809	RGRFLPPCHPAALPPCRPAALLP
						VVAARGAPSPPPPHVLPCVGSG
		l				LGYNMLGMIKNSLFGSVETWP
		l				WKVLSKGDKEEVAYEERACEG
		l				G\KFATVEVTDKPV\DEALTGK
						QLPKV\AKYAGGTNDKG\IGMG
						MTVPISFA\VFPN*RWLSCRKKL
						KVWFPDFQTNFQSDPPAPS\DKS
						VKI\EEREGIHCLIPCQFGGYAK\
						EADYV\AQATR\LRAALGG\PAT
						YRGDIYFCTGYDPPMK\PYGRR
						NEI\WLFEDMSDPTEPRTYWEV
						CLCVSFLRG
19773	50141	С	19888	164	208	
19774	50142	Α	19889	1542	1929	NLVPSLGSGDLPWEINP/LSSCS
		l				LLHEKDPPTTSGPQTDQPKKHL
ļ		l		ŀ		TNFKSAARPT\SWGRGKYPSTPS
ŀ				1		PSPLAASPAFLGGKNPPIAYFHT
						PTSYLCAPIPYFCAPTPSLLFWR
İ	1			1		ARTTTPTPSLCLKSFL
19775	50143	Α	19890	1	208	MPEPQRPGVPPEPPPGACYAC
				i		RKSGHWA\RNARSPGFLLSRVP
		1				SPPGPSRTPSFG*LSQWKPTCTQ
						VK
19776	50144	Α	19891	1	1662	
19777	50145	В	19892	1	915	
19778	50146	A	19893	183	569	
19779	50147	С	19894	71	344	
19780	50148	A	19895	147	446	
19781	50149	A	19896	167	373	
19782	50150	A	19897	142	363	
19783	50151	C	19898	52 228	174	
	50152	-	19899		753	
19785	50153	A	19900	1	1077	
19787	50154	A	19901	500	912	LGSGDFPWEINPLSSCSL/LREK
19/8/	30133	A	19902	300	912	DPRTTSGPQTDQPSKHLTNLKS
		l				ASTPPPYNPFITSPPHTRSGLOFR
		1				
	1	1				STSSPPAPAQQFTLKKVAEAKG IVKVNAPFSLSDLSOISVRLGSFI
10700	60156	۱.	10002	ļ. — —	071	KYEKSSPVHGSFGSNPETLYSP
19788	50156	A	19903	174	222	
	50157	В	19904	1/4	756	
19790	50158	A	19905	L ¹	1/36	L

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	l	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
		<u> </u>			Loren	NATIONAL OF SELECTION OF SELECT
19791	50159	A	19906	1035	1852	NLVPSLGSGDLPWEINP/LSSCS
						LLHEKDPPTTSGPQTDQPKKHL
						TNFKSAARPT\SWGRGKYPSTPS
						PSPLAASPAFLGQRQVPLSWGR
l						GRCPSTPSPSPSAASPAFLGQGQ
						RQVPLSWGRGRCPSTPSPSPSA
						ASPAFLGQGQRQVPLSWGRGR
		l				CPSTPSPSPSAASPAFLGQGQRQ
		1				VPLSWGRGRYPSTPSPSPSAASP
		1				AFLGQGQRQVPLSWGRGRCPS
		l				TPSPSPSAASPAFLGQRQVPLSW
		l				GRYPSTPSPSPSAASPTFLGQDL
						PLSWG
19792	50160	A	19907	1644	1981	LGSGDLPWEINPSSSCSLLREKD
						PPTTSGPQTDQPKKHLTNFKSA
				ļ.		*KRTNTASYK/WHSQSRVPAPR
		1				DGLVAAPTESEVAFLPVPPHQG
						PPLGNLGPSTVTTSFRCWLLDP
				ļ		RS
19793	50161	Α	19908	1011	1154	
19794	50162	Α	19909	1043	1168	
19795	50163	Α	19910	1328	1470	
19796	50164	В	19911	406	1191	
19797	50165	Α	19912	2848	3140	SFYHLSSSHLVRLTVSFRD*PSP
				1	i	TCPAIYS*KGGWSQRHSQGACY
i						TCRKSGHWA\RNARSPGFLLSH
						VPSVWDPTENRTVQLTWQPIPE
						PLELWPKAL
19798	50166	В	19913	1	941	
19799	50167	Α	19914	656	1983	NLVPSLGSGDLPWEINP/LSSCS
					l .	LLHEKDPPTTSGPQTDQPKKHL
		l		ŀ		TNFKSEAKEICFIREPKTPAPVT
						DWEGSLPLVFNHCRDASLIIHS
						RFKGVRPRRDACLGPSPLAASPI
1				1		FLGKGQRLKTDTARLPRKPPRP
1						SRMPSFGVKHVNVTIDCLPEGA
						ATRGTARTSKPTTKSQKTLPST
l						SPGHWTQSTPWASALRSSPWTE
		1	l	1		TAAPSETEETLNTGRPPELPARA
1		1	1	l	1	TATWFSASHTLPALATRRVART
1		1	l	1	1	QWLTADRQTWASISSVPWAQT
				1		ISEKKPGGSLWETRSSPPTTAGT
1		1		1		EEAMNTTSLLAPAAEIMATPGS
1		l		1		PSQASPTSGAFTHGTQTPSPTKA
1		1	1	1		TAPRYPOTGNSILTFGRPFLPFA
1		1	1	1		GDLFAEWPFTAGEEPVLVPRPH
1		1		1		OVSKTRSPPSFHLTLKTVTVAL
				1	1	LGNGEECYVYLSVSELREIRTR
					1	LYSPDAGLNEEKMLTKLLLI
19800	50168	A	19915	117	432	
19801	50169	C	19916	122	289	
	1					· · _ · _ · _ · _ · _ · _ · _ · _ ·

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X-Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19802	50170	A	19917	1	516	
19803	50171	В	19918	212	3302	
19804	50172	С	19919	181	444	
19805	50173	Α	19920	151	485	SPRGHYQLLLSGRALADRYRRI
			ł			YTAALNDRDQGGGSAGHPAS/
		1				RSENLENTVIIPDIKLHSNPSAFN
		1				IYCNVRHCVLEWQKKEISLAAA
						SKNSVQSGESDSDEEEESKEPPI
19806	50174	Α	19921	1	3465	
19807	50175	Α	19922	I	176	
19808	50176	A	19923	114	14211	AAPVAAPGALFMPVPDGSVAA
		1				AGLGLGLPAADSPGHYQLLLSG
		1				RALADRYRRIYTAALNDRDQG
						GGSAGHPASRNKKILNKKKLK
						RKQKSKSKVKTRSKSENLENTV
						IIPDIKLHSNPSAFNIYCNVRHC
		İ				VLEWQKKEISLAAASKNSVQS
						GESDSDEEEESKEPPIKLPKIIEV
		į.				GLCEVFELIKETRFSHPSLCLRS
			1			LQALLNVLQGQQPEVLQSEPPE
						VLESLFQLLLEITVRSTGMNDST
10000	50155	١.	10004	255	1101	GQSLTALSCACL
19809	50177	Α	19924	375	1191	SQGIPELHYTPGPRGRWCGWW PIVEPRMGASOGCCVLGHLAO
						OGGGASQAVRGANGVHAGCR
						GDPHPRSDHYPGGRPWLPGAS
						QDPAVAPGGHGHPSYLARLPC
		ŀ		1		AAEPGTP/PAEPPRPSSLPGAAT
				1		APAGT*\PALADAPPRRVGGAG
						QPGRGHV*PKLVPGWQSQDSI*
		ŀ				PSL/PSSPARHTLAASATP*APGS
		1				GARPAW*C*WAPALAPVIPVD
		ļ.				AHSPP\GGAGHGPGH*GPRGSV
						LGLRLPAGCP\GPRQPHRPGQSG
						POPSSPPGGALRSASR
19810	50178	A	19925	3	543	SDDOPEKPHFDSRSVIFELDSCN
						GSGKVCLVYKSGKPALAEDTEI
		1				WFLDRALYWHFLTDTFTAYYR
		1				LLITHLGLPQWQYAFT\SYGISP
						OAKGITKATCEWGEHIIPLGSM
						AINSISKLTOLTOSSMYSLPNAP
						TLADLEDDTHEGRKGTEGSQL
		1	l	1		KCEHQLPPPMSHVGGGQRESL
				1		ARKEK
19811	50179	Α	19926	I	392	FLDRALYWHFLTDTFTAYY\RL
		1			1	LITHLGLPQWQYAFTSYGISPQ
				1	1	AKITYNIKMNRRKCVHWKLAV
				1		EPLQWELRSCVSAGMGTGPKQ
						KVSSMKPRSCSVCSRRQSNSMG
						TTVSQSFLSYGKNVLFFPVRCC

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
19812	50180	A	19927	1	1081	RAMEEEASSPGLGCSKPHLEKL
						TLGITRILESSPGVTEVTIIEKPP
ŀ				l		AERHMISSWEQKNNCVMPEDV
l		l			ŀ	KNFYLMTNGFHMTWSVKLDE
İ		1	ŀ			HIIPLGEALAINKHLKTDFSFTQ
						SSMLFTFLIAPTLGQTWEDDTH
		1	İ			GSQWMIQPEKPHFGLFAVLIF*
		l			•	GWVS\CNGSG\KVCLV\YKSG\K
		l			ŀ	PALAEGHWRFLFPGTELLYWH
ļ		l				FLTDTFTAYYR\LLIT\HLGLPO\
		l				WAILPFTSYGISPQAKQW\FSM
		l				Y*TYSPYNTNLV/TOKETDSFCC
		1				IKLDPSKVF*GGKNKIVIPKKKG
		1				PVQPAGG\QKGPFRDPPVPSISSI
		l				FKSSSGLWGNPTREVSTPPSNSL
						PAPEWWFPCTDGPRGDLQFCV
		İ				WTVGLFLVE
19813	50181	Α	19928	1	2835	MDALMLALGALMLALGLGDP
				1		KSAQVSDPDGAEPGPGRATGT
ĺ						DPLVQIHWKLGISEALSIPGGRL
						YRDLWSLTPVCLHIPGIAHHGP
						FTLGRMDVVEVAGSWWAQER
						EDIIMKYEKGHRAGLPEDKGPK
						SFGSYNNNVDHLGIVHETELPP
				İ	1	LTAREVKQIRREISRKSKWVKM
				•		LGEWDTYKNSRKLIDRAYQGIP
				ŀ		MNIRGPMWSVLLNIEEIKLKNP
		i				GRYQVRSARAQPTGQAVSGAQ
						VSSWRERQDHPGELGVKI
19814	50182	Α	19929	3	142	TISSIIRKARKP\QDLLNNYTPRS
		1				SPLRSSGRTRMYKGKNVRPGNS
						s
19815	50183	Α	19930	904	1295	WALMNGSESRFFVSSSQGRSEL
1		l		1		VPNS/NYAVDY*PLTAHAVSSG
1				l		GTSPVLARLLREKLESL\LPLHL
1		1		ŀ		GQVAKYAGQLRGRVKQQFAT
1						MGERRRFWEKLFVNDR/AGAV
1		1		l		AGKQRSESHY*NDRTVNQRTA
				l		RPSR
19816	50184	В	19932	Ι	1050	
19817	50185	Α	19933	303	384	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
19818	50186	A	19934	375	1161	EALESAPEG/RR*GSGTKTLSPS
						P/PAGSWVCRIPMGRGCRHGAE
l						R/P/PGSQESSPSNGHGKLAGPSP
						YLGRFKSSS*T*QSPQTPAQGVS
1						AS*GLGAAPVLRLQGPVPP\\$HC
	ŀ			i	į.	GKSRPDPC*PSPGSPDPPGERES
						QQESQ*WPPVGELCTDPTGNPE
	1					RGGRHLQ\SHAPSGGGLSGFPS
		ł				DSFPCSCYYGSTPVARKKRFAK
	1	1		1		CRGYIYDFVYELLSLKPPSQGV
						AEMPPPAVGQQG\QAEPRGIPQ
						SPAGGRVFFQDFYSLCLENTS
19819	50187	В	19935	62	346	
19820	50188	В	19936	1	1629	
19821	50189	Α	19937	1	1218	
19822	50190	С	19938	718	1053	
19823	50191	A	19939	54	212	
19824	50192	Λ	19940	122	451	
19825	50193	Α	19941	329	398	FFSYFRPSGCILPL*ELPEARCP
19826	50194	Α	19942	92	346	VGSSPSRL*SLRGQVLNKN*S/I
		1				QLGCLHIVGNPI*NS*DVPWAG
		1	i			WSED*GRRWISSRSSSKDRGPV
						S*RSPPVPGLQHQMSHASM
19827	50195	A	19943	284	374	LKNHKRSEYALPHLN**PSTTK
		i i				EV*M/DRS/SALSDDITL*KSFSW
		1	1			LILAQKSPPLSTLQPPLLPAREQ
		1			1	TLFDCNSPLPTQIL*NGPTLISLR
		<u> </u>				*LSQDEPGKGLSQGNVIT
19828	50196	A	19944	1	1674	MAPPLSPFADSLFGLSPPAPRDK
						GDTFYPWTQNSGARHGLGRQP
1		1				SLGVSSLQGRLSDHSPTFQRCQ
1		1			1	TTQGRLPWSFTLSGKSCFSEEG
	i			ľ		AIPTPSVAESFQSSFSTDPSDLSP
}		ı	1			PPQPAHRQAELSPNSSSASTPPP
	1					YNPPTTSPPHTRSGLQFSSATSS
1	1	1	1		1	SPPAQQFPLREVAGAEGIVNAH
1	1	1	1	l	1	VPFSLSDLSQISQHLGSFSSDPT
1		1	1	1	1	KYIQEFRYLTLSYNLTWSDLNV
1		1	1		1	ILTSTLSPDERERVFPVSQSHAD
1		1	1	_	l	NRRLHEP

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
19829	50197	Α	19945	1746	3501	ESDPSNSTTSMDRTLL/MSSIVP
1						RLPSACRILPTGFTIPE*SCVHRT
						ASLIPPLPPGSRKYSPPLPLNSLI
						FLKN/SAYTAVPALQTDWATSP
						ISLHLRTSFNSPHLYPPEELIYFL
						DRSSKTSPDISHQQAAALLRTY
						LKNLSPYINSTPPIFGPLTTQTTI
				i		PVAAPLCISWQRPTGIPLGNLSP
						SRCSFTLHLRSPTTNINETIGAF
						QLHITDKPSINTDKLKNISSNYC
						LGRHLPCISLHPWLSSPCSSDSP
			l			PRPSSCLLIPSPENNSERLLVDT
1				ŀ		RRFLIHHENRTFPSTQLPHQSPL
1						QPLTAAALAGSLGVWVQDTPF
1						STPSHLFTLHLOFCLAOGLFFLC
						GSSTYMCLPANWTGTCTLVFL
						TPKIQFANGTEELPVPLMTPTQ
						OKRVIPLIPLMVGLGLSASTVA
						LGTGIAGISTSVMTFRSLSNDFS
						ASITDISQTLSVLQAQVDSLAA
						VVLQNRRGLDLLTAEKGGLCIF
		l				LNEECCFYLNQSGLVYDNIKKL
				1	0.00	KDRAQKLANQASNYAEPPWAL
		l				SNWMSWVLPIVSPLIPIFLLLLF
İ				ļ		GPCIFRLVSQFIQNRIQAITNHSI
1		1		l		RQMFLLTSPQYHPLPQDLPSA
19830	50198	A	19946	1392	1676	GFCILHIVLEPWFSAPSAPLSTSL
19030	30196	^	17740	1392	1070	YWLF*LYILLNFFOSFOLLCLW
		l				FECPPV AQSNLIV*SLLLSARQS
		l		l		HSPSSFFPLLVRNCVPLEEERCS
19831	50199	В	19947	1	1500	HSPSSFFFELVKNC VPLEERCS
19831	50200	A	19947	107	691	TTMLLIOSLFGGLFTWTRMKFG
19832	30200	Ι^	19948	107	091	AVARIGGHPLGDQSP\SSCSLLP
					•	EKDPPTTSGPOIDOPKKHLTDF
i						KSGTPL*LYTHVSRVSDHAGTP
1		l				
						ALVLHP\YGKSRFSGEGATQRQ
						YPIPQQALKGLMPAITRLLQHG
1		1		1		LLKPINSPYHSPILPVLKPDKPY
1				i		KLVQDL\PLSTKLFCLSTPWCQT
		_				HILFYPQYLPLQPIILF
19833	50201	В	19949	1	2628	
19834	50202	В	19950	1	585	
19835	50203	В	19951	178	462	
19836	50204	С	19952	1	825	

SEQ ID NO:	SEQ ID NO: of peptide scquence	Met hod	SEQ 1D NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19837	50205	A	19953	644	1795	RPSKSQTMLNSLSTALIISKIYFL PHT*HIYFLLPGSFCYTHSLLSLP
					ł .	QLPLFL/CLDLNAASHIPDTTPD
						PHDCISLIHLTFTFPOISFFPVSHP
						DHTWFIDGSSTRPN\TTHQQRQ
						AML*YLPHLSLRLPLCLPPLPLS
						KPN*LP*LKPINSPYNSPILPVQK
						PDKSYRLVQDLRLINQIVLPIHP
		ļ				VVPNPYTLLSSIPSSTTHYSMLD
						LKDAFFTIPLHPSSOPLFAFTWT
					1	DPDTHQSQQLTWAVLPQGFRD
		l			•	SPHYFSOALSHDLLSFHPSASHL
						IQYIDDLLLCSPSFESSQQDTLL
		l				LLQCLFSKGYRVSPSKAQISSPS
						VTYLGIILHKNTHALPADRWPS
						CLRAAAAAALILVEALKITNYA
						QLTLYSSHNFQNLFSSSHLTHIL
						SAPRLLLLYSLFVESPTITIVPGL
1						DLNAASHIIPDTTPDPHDCISLIH
1		ĺ			i	LTFTFPQISFFPVSHPDHTWFID
1						GSSTRPNHHSPAKAGYAIVSST
1		1				SHEATALPPSTTSQQAELVTLT
						QALTLAKGLRINIYTDSKYAFHI
1						LQHHAVIWAERGFLTTQGSSIIN
						ASLIKTLLKTTLLPKEAGVIHCK
						GHQKASDPIALGNAYADKVAR
						QAASSPTSVPHSQFFSFASVTPT
		l			1	YSPTETSTYQSLPTQGKWFLDQ
						GKYLLPASQAHSILSSFHNLFH
		l				VGYKPLDRLLEPLISFPSWKSIL
						KEITSQCSICYSTTPQGLFRPPPF
						PTHQARGFAPAQDWQIDFTHM
19838	50206	A	19954	52	641	RPSKSQTMLNSLSTALIISKIYFL
1						PHT*HIYFLLPGSFCYTHSLLSLP
						QLPLFL/CLDLNAASHIIPDTTPD
						PHDCISLIHLTFTFPQISFFPVSHP
		l				DHTWFIDGSSTRPN\TTHQQRQ
1						AML*YLPHLSLRLPLCLPPLPLS
1						KPN*LP*LKPSLLQKDYASISILI
						LNMPFIFCSTMQSYGLKEVSSL
						HKGPPSLMPL
19839	50207	Α	19955	3	380	TTPDPHDCISLIHLTFTPFPHISFF
						RVPHPYHIWFIDGSSTRPN\ATH
						QQRQAML*YLPHLSLRLLLCPP
						PLPLSKPN*LP*LKPSLLQKDYA
		1				SIFILTLNMPFISCTTMQEVSSLH
L		<u> </u>				KGPLSLIPL

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first		*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
			ļ	sequence		
19840	50208	Α	19956	154	485	TFIRTHFLTOPOPCPRHOPSR*L
						SSSPPAG*TG/IFARLLIFSCLLOI
				i		LNHM/QHTLAGQSVLVKNLTP
						OTLOPRWTGPYLVIYSTPT/VRP
				l		PAGSSPLGSPFQSKAVSISQPA
19841	50209	A	19957	158	416	ISGTCSNLLGEEVLEERLAAAV
						QAFGSSRVLEMWLGFVSQWRQ
					1	VIVTQKCIAVWLLPLYYCTP*R
		l				QG*LIPVVGFEGQILIFEVFS
19842	50210	С	19958	1	1755	
19843	50211	A	19959	2	394	
19844	50212	Α	19960	710	1093	KEPTQHSFSYTHSLLSLPQLPLF
				l		L/CPDFNPASHIIPDTTPDPHDCI
						SLIHLTFTPFPHISFFPVSHPDHT
						WFTDGSSTRPN\ATHQQRQDM
						Q*YLPHLLLTLPLCPPPLPLSKP
						NQLP*LRPSLLQKG
19845	50213	С	19961	1	1287	
19846	50214	Α	19962	1	1293	MEEPLGFKQTLVVAQQNPLWT
						SGGGGHSPSGSGHRGVCITTLP
						VPEGSSQKETPHVSEKLKEKNE
						SLPGNPENSSRSSERPPRRHSKA
		l				RDSDEENDPDDEDAVVNAVGC
						LGKNSGFLAPELQKYQKQIKDG
						TAGTPAISTTTTVEIRKSSVMTT
						GDHLLSGKKAQRPAPGHSSCPS
						TETEEEKGKRLLYWVVWQVA
						VNSASQLEAHNSENPVSLSCRI
						RERPGLWHGYRPSRSPLPHSLS
						GSYSLWALRTDTVCD
19847	50215	С	19963	1	846	
19848	50216	В	19964	377	I 172	
19849	50217	Α	19965	564	1163	FPKSIFFLPPDAYTFLFPWLLQL
						YSLFVESPTITHCSWPRLQSGLP
						HYSGYHT*PS*LYLSDPPDIHPIS
						AYFLLSCSSP*SRLIY*WQFHQA
			1			*SPHTSKGRLCYSTSH*PAS*NL
						SFPFHRGNVSSRK*LLSVPSAIL
						LLLRDYSGPLPSLHIKLRDLPPP
1						RTGKSA\YSTCPESGN*NTSWSR
		1		l		*TLICQS
19850	50218	Α	19966	1382	1778	PIGTNTECVVLFQPMETGHSSR
						VNMSGYK*PC/PPLFGVLSWQN
		1	l	1		CWRVYPFCLLFGGPLSVMDPE
	1	1				GSPSGC/SNSLGLGADSVTLSTG
	1	1	l			GVFQPNVRGLNCNGKIVMGRC
	1	1	ı	l	I	PLEFVPIPATSPISRKKPERSTAF

SEQ 1D			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hođ	in USSN 09/540,217	location of first	codon for last amino acid of peptide sequence	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	or peprioe sequence	deletion, \=possible nucleotide insertion)
19851	50219	A	19967	239	737	RPSFKTPENSPTLVPTWTTLFYA
						LFFSYPHLPTSLIRPKYFNOIICF
						PDYSWSTATSHCCPSSQSK/CLL
					1	CV/SLTSPQYQPLPQDLPSA*SLP
		1				L*VPTPPLIPLEAALRNIAHSLSI
						PPPKNFRRSNTSTLFCFICLINIR
						ROECOASEPRPGHRIPCDLHVYI
						QMA
19852	50220	В	19968	1	1321	<u> </u>
19853	50221	Α	19969	1	1069	
19854	50222	В	19970	758	6451	
19855	50223	Α	19971	53	319	CSGSMPSSSSVSRPTSPFGSPLLS
1					l	SPATSSSPKTPPTSATSGSSCPTT
1						GL*MWTWSGFTGPVKAATWR
						WTSATYPRWSWRPRAPLCPP
19856	50224	Α	19972	1427	2103	RPVHGHLHAVPVWRDSVRGLA
1						PSSSPRVPGRDLIKQTPRLRARV
		1				VLSPFKTADAAHSHPGLTQPGR
1						GRMKADISAATPGPFMCRVTPL
						ALGVSTEPSPARLVLNFVLFCF
1						VLRRSLALSPRLEVLWLDLG\SL
		1				QPPPP\GFKQFSCLSLPSSW\DYR
		1				CMPPWAG\QFLEF*VEDGV*H\I
	}					GQADLELLTSGDPPASASQSAG
		1				ITGVSN\RAQPQVSECGHGVAL
						RRQ
19857	50225	A	19973	3	320	VRMVIIKKSENNRCWRKCGEIG
						MLLNCW*ECKLVQPVWKT/VD
1						PAIPLLGIYPKDYISFYGKDTCT
		1				HMFIVALFTIAKTGNQPKCPSMI
		<u> </u>				DWIKKMWHIYTMEYYAAI
19858	50226	Α	19974	2	79	
19859	50227	Α	19975	308	630	GREKAREQVDLTLFTIAKTWN
				1		QPKCPSVIDWIKKIW/HIYTMGY
		l				YAAIKKDEFVSFAGT\WMKL*T
						VSVEADPHIEGRFFRFKNYASK
	1					TPSLKLQRQSRPFQETSHPTGIE
l		1	1		1	KRSPPNLQKATQPHIMSAKEYA
l		1	1		1	FSRKMYGKTGRKKGEVKVRER
ĺ		1				KGKGAGRSDTIYNSKDLEPTQ
l	1	1				MPISDRLDKENMDIYTMGYYA
i .			ĺ			AIKKDEFVSFAGTMDEAVNQG
	ĺ	1	l	1	1	YSSRARTRHWSMKKILLQLAR
		L_				CLPKWPLSFVLESQGLGGVGS

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
19860	50228	Ā	19976	2	508	KTTMRYYLTPVRMAIIKKSENN
1,000	50220		.,,,,	ſ		RCWRGCGETRMLLHCWFECKL
						VQLLWKT\W*FLKDVELKIPFD
						PAIPLLGVYPKDYKSCYYKDTC
						TRMFIAALFTIAKTWNOPKCPS
						VIDWIKKMWHIYTMEYYAAIK
						KDEFVSFAGTWMKLETIILSKL
	1					SQGQKTKHRMFSLISGS
19861	50229	A	19977	1926	2448	DFIAVITTRKQLKTKYNAHHSK
19801	30229	^	19911	1920	2446	QAITKHFSPKISDLILCLKKKIM
1		1				NRHFSKEDIYAAKKHMKKCSP
1						SLAIREMQIKTTMRYHLTPVRM
		1				AIIKKSGNNRCRRGCGEIGTLLH
		1				
						CWWDCKLVQPLCKSMWRFLR
						DL\DPAIPLLGIYPKDYKSCCYK
	I	<u> </u>		ļ. — —	1000	DTCTRMFIAALFTIAKTWNQP
19862	50230	В	19978	I	1899	
19863	50231	Α	19979	I	2142	MIILIDAEKAFDKIQQPFMLKTL
		1				NKLGIDGTYLKITRAIYDKPTA
ì		i		1		NIILNGQKLEAFPLKTGTRQGCP
		1				LSPLLFNIVLEVLAQAIRQEKEI
						KGIQLGKEEVKLSLFADDMILY
						LENPIVSAQKLLKLISNVSKVSG
		1				YKINVQKSQAFLYTNNRQTESQ
		ı		l		IMSEFPFTIATKRIKYLGIQLTRD
	1	1	1			VKDLFKKYKPLLNKIKEDTNK
	1	1	l			WKNIACSWIGRINIMKMAFPR
		1	1	l		WELNNENTWTQEGEHHTLGPV
		ł	1	ŀ	1	VGWGKRGGIALVDIPNVNDKL
		ŀ	l			MVLEVLARAIRQKKEIKGIQLG
	Ì	l .	1			KEEVKLSLFADDMIVYLENSIV
						SAQNLKLISNFSKVSGYKINVQ
		ŀ			İ	KSQAFLYTNNRQTESQIMSEFP
		į.				FTIATKRIKYLGIQLTRDVKDLF
		1	ļ			KENYKPLLKEIREDTNK WKNIP
				İ		CSRIGRINIMKMAILPKVIYRFN
		1		i		DIPIKLPMTFFTELEKTTLKFIW
		1				NOKRACIAKTILSKKNIAGGITL
		1		i		PDFKLYYKATVTKTAWYWYQ
						NRDIDOWNRTEASEVTSHIYNH
		1	ļ	1		LIFYKPDKNKKWGNDSLFNKW
l		1		l		CWENWLAICRKLKLDPFLTPYT
		1		1		KIHSRWIKDLNVRPKTIKTLEEN
				I		LGNTIQDIGMGKDFMTKTPKA
		1		1		MATKAKVDKWDVIKLKSFCTA
1		1		1		KETTIRVSROPTEWEKIFAIYPS
l				1		
		1	1			DKGLISRIYKELKQIYRKK\TNN
l				1		PIKKWAKNMNRHFSKEDIYAA
1000	50000	١.	10000	 , 	5107	NRQMKKCSSSLVIREMQIKTTM
19864	50232	Α	19980	1	5127	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nuclcotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
19865	50233	A	19981	209	3816	QGRPTFRFRKYREHHKDTPREE
						OLODT*SSDSPKLK*RKKC*GO
		l				PERKVKLPTKGSPSD*KRISRQ/
						KTLQARRQSWFFEKINKIDRPQ
						ARLIKKKREKNQIDTIKNDKGD
		1				ITTDPTEIQITIREYYKHLYANK
					İ	LENLEEMDKFLDTYTLPRLNQE
	1				l	EVESVNRPITGSEIEAITNSLPTK
					i	KSPGPDGFTAEFYQRYKEELVP
						FLLKLFQPIEKEGILPNSFYEASI
		1				LIPKPGRDTTKKGNFRPISLMNI
						DAKIL
19866	50234	Α	19982	1	1698	MELKAKAQELREECRSLRSRC
						NQLEESVSVMEDEMNEMKREG
						KFREKRIKRNEQSLQEIWDYVK
	1	Į				RPNLRLTGVHESDGENGTKLEN
			İ			TLQDIIQENFPNLARQANIQIQEI
	1		i	i		QRTPQRYSSRRATPRHIIVRFTK
						VEMKEKMLRAAREKGWVTHK
						GKPIRLTVDLSAETLQARREWG
	1					PIFNILKEKNFQPRISYPAKLSFI
						SEGEIKSFTDKQMLTDFVTTRP
	1					ALQELLKEALNMERKNRDTHR
	1					LKIKGWRKIYQANGKQKKAGV
		1				AILVSDKTDFKPTKILKDKEGH
						YIIVKGLIQQEELTILNTYAPSTO
						APRFIKQVRSDLQRDLDSHTLII
						GDFNTPLSTLDRSTRQKVNKDT
	1					QELNSALHQADLIDIYRTLHPK
	1					STEYTFFSAPHHTYSKIDHIVGS
		1				KALLSKCKRTEIITNYLSDHSAI
		1		1		KLELRIKKLTQNHSTTWKLNNL
				1		LLNDYWVHNEMKAEIKMFFET
				1		NENKDTTYQNLWDTFKVVCTG
I	1	1	1			KFIALNAHKRKQERSKIDTLTS
l						QLKELEKQEQTHSKASRRQEIT
1		1				KIRAELKEIETQKTL/QKINESRS
		I.—		<u> </u>	-	WFFERINKIDRPL
19867	50235	A	19983	1	3450	
19868	50236	B_	19984	1	2265	

2520

SEQ ID NO:	SEQ ID NO: of peptide	Met	SEQ ID NO: in USSN	Nucleotide location of first	Nucleotide location of last codon for last amino acid	Amino acid sequence (X-Unknown, *=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
19869	50237	Α	19985	1	2526	MFFETNENEDTSYQNLRDTFKV
						VFRWKIIALNAHKRKQERSKID
		İ		1		TLTSKLKELEKQQQTNSKASRR
						HEITNIRAELKEIETQKTLQKIN
						ESVNWFFEKIIKIDRLLARLIKK
						KREKNQIDSIKNDIEDITTDPVE
						TQTTVREYFKHLYANKLENLEE
						MDKFLDTYILPSLSQEEVEPLN
İ						RPITGSEIEAIINSLPTKKSPGPD
				1		RFTAKFYQRITNTEKCLKELME
1		l				PESQSSRTT*RMQKPQESMRST
				1		GRKGFSDGR*NE*NE*RGEWN
1						QVGKHSAGYYPGELPQTSKAG
						QHSDSGNTENATKILLEKSNSK
						TYNCQIHQS*NEGKNVKGSQRE
						RNTNYHQRILQTPLRK*TRKS\K
						EMDKFLDTYTLPRLNEEEVESL
1						NTPITGSEIVAIINSLPTKKSPGP
			i			DGFTAELYQRQTESQIMSELPF
		i				TIASKRIKYVGIRLIRDVKDLFK
		1	1			ENYKPLLSEIKEDTNKWKNIPC
		l				SWVGRINIVKMAILPKVIYRFN
1		1				AIPIKLPMPFFTELEKTTLNFIW
						NQKRAHIANSILSQKNKAGGIT
		l				LPDFKLYYKATVTKTAWYWY
		l				QNREIDEWNTTEPSEIMPHIYN
	}	l				YLIFDKPEKNKQWEKDSLFNK
]	l				WCWENWLAICRKLKLDPFLTP
		l				YTKINSRWIKDLNVRPKTIKTLE
		1				ENLGNTIQDIGIGDDFMSKTPK
	j	l				AMATKAKIDRWDLIKLKSFCT
		_				AKETTIRVNRQPTKWEKIFATY
19870	50238	A	19986	I	3723	
19871	50239	A	19987	1	1023	
19872	50240	В	19988	91	1596	
19873	50241	В	19989	1	3171	M I NOCOVI DOVE A CCTI VEV
19874	50242	Α	19990	1	2952	MLLNQGRKLPRVFAEETLKFK
		1				GTSNKPQTLEQISTSIIAQKEAT
		1				VMVPGSNQEIPSGAYAIRALGF KHKTGRLFEOTLNYLOEFLFTP
		ļ				
		i				QWHLECQQERTVHSPGKAAEA
		1		l		REPSVIDRHLIQESSNWHLVGA
İ				I		ALGQSFQRKEQAAIFAVLQPLL
l		1	1	ĺ		VIPRQTGSGVDLQKTPTDLQQR
			l			GLIVRRKTNKQKGIVHNSTTRE
		1	İ	1		QNWTENEFDKLTEGGFKRWVI
1			1			TNSSELKEHVLTQCKEDKNLEK
10075	50242	<u> </u>	10001		1797	SAIKLELRIKNLIQN
19875	50243	A	19991	I	1797	L

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
					10000	
19876	50244	A	19992	1	2367	MVKGSIQQEELTNLNMYAPNT
		1				GAPRFIKQVLSDLQRDLDSHTLI
1		1	l			MGDFNTQLSTLDRSMRQKVNK
		1				DTQELNSALHQADLIDIYRTLH
		ŀ				PKSTEYTFFSAPHHTYSKIDHIV
	1	l				GSKALLSKCKRTEIITNYISDHS
		į.				AIKLELRIKNLTQNCSTTWKLN
			ŀ			NLLLNDYWVHNEMKAEIKMFF
		l			ŀ	ETNENKDTTYQNLWDTFKVVC
			i		İ	RGKFIALNAHKRKQERSKTDTL
İ						TSQLKELEKQEQTHSKASRRQE
				ŀ		ITKIRAELKEIETQKTLQKINESR
		1		ŀ		SWFFERINKIDRPLARLIKKKRE
1			1			KNQIDAIKNDKGDITTDPTEIQS
1		l				TIREYYKHLYTNKLENLEEMD
						KFLDTYTLPRLNQEEVESLNRPI
		ĺ				TGAEIVAII/NNLPTKKSPGPDGF
						TAEFYQRK\EGILPNSFYEASIILI
						PKPDRDTTKKENFRPISLMNID
					1	AKILNKILANRIQQHITKLIHHD
1					ŀ	QVGFIPGMQGWFNIRKSIRVIQ
					ŀ	HINRTKDKNYMIISIDAEKAFD
					•	KIKQCFMLKTLNKLGIDGTYFK IIRAIYDKPTANIILNGOKLEAFP
						LKTGTREGCPLSPLLFNIVLEVL
						ARAIRQEKEIKGIQLGKEEVKLS
1					l	LFADDMIVYLENPIVSAONLLK
1						LISNFSKVSGYKINVQKSQAFL
						YTNNROTESOIMSELPFTIASKR
					l	IKYLGIQLTRDRKDLFKENYKP
						LLKEIKEDTNKWKNIPCSWVEK
				l		INIVKMAILPKVIYRFNAIPIKLP
19877	50245		19993	2	2910	WRKIYOANGK/OKKAGVAILVS
19877	50245	Α	19993	2	2910	DKTDFKPTKIKRDKEGHYIMVK
						GSIHQEELTILNIYAPNTGAPRFI
				1		KOVLSDLORDLDSHTIIMGDFN
i					1	TPLSTLDRSMRQKVNKDTQEF
						NSALHQADLIDIYRTLHPKSTE
1			1	l		YTFFSAPYHTYSKIDHIVQSKAL
1				l		LSKCKRSEITNCLSDHSAIKLD
		1		l		LRIKKLTONHSTTWKLNNLLLN
		1				NYWVHNEMKAEIKMFFETNEN
		1		l		KDTTYONLWDTFKAVCRGIFIA
1						LNAHKRKOETS
19878	50246	A	19994	1	4729	2
19879	50247	Α	19995	1	1566	
19880	50248	В	19996	1	2796	
19881	50249	В	19997	127	2479	
19882	50250	В	19998	1	2907	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \mpossible nucleotide insertion)
19883	50251	Α	19999	1	3210	MVKGSIQQEELTILNIYAPNTG
						ALRFIKQVLRDLQRDLDSHTIIM
						GDFHTPLSTLDRSTRQKVNKDI
						QELNSALHQEDLIDIYRTLHPKS
						TEYTFFSAPHHTYSKIDHIVGSK
				1		ALLSKCKRTEIITNCLSDHSAIK
						LELRIKNLTQNRSTTWKLNNLL
						LNDYWVHNEMKAEIKMFFETN
	İ	1				ENKDTTYQNLWDTFKAVCRGK
	1	1				FIALNAHKRKQERSKIDTLTSQL
						KELEKQEQTHSKASRRQEITKIR
		_				AELKEIETQ
19884	50252	Α	20000	1	2052	MGDFNTPLSTLDRSMRQKVNK
	1	1				DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV
	1	l		ŀ		GSKALLSKCKRTEIITNYLSDHS
		l		l		AIKLELRIKNLTONRSTTWKLN
		1				NLLLNDYWVHNEMKAEIKMFF
		1		ŀ		ETNENKOKTYONLWDAFNAV
	İ			ļ		CRGKFVALNAHKRKQEGSKID
		1				TLTSQLKELEKQEQTHSKASRR
						QEITKVRAELKEIETQKTLQKIN
		ĺ		1		ESRS\ARLIKKKREKNQI/DAIKN
		ł				DKRDITIDPTEIQTTIREYYKHL
	1					YANKLENLEEMDKFLDTYTLP
		1		l		RLNQEEVESLNRPITGSEIVAIIN
	1					SLPTKKSPGPEGFTAEFYQRYK
		1		l		EELVPFLLKLFQSTEKEGILPNS
		1				FYEASIILIPKPGRDTTKKENFRP
				l		ISLMNIDAKILNKILAKRIQQHI
						QKLIHHDQVGFIPGMQGWFNIC
						KSINVIQHINRTKDKNHMIISID
						AEKVFDKIQQRFMLKTLNKLV
		l	*			LEVLARAVRQEKKIKGIQLGKE ELKLSLFADDMIVYLENPIVSA
		1				QNLLKLISNFSKVSEYKINVQKS
				1		QAFLYTNNRQTESQIMSELPFTI
						ASKRIKYLGIQLTRDVKDLFKE
				1		NYKPLLKEIKEDVNKWKNIPCS
				1		WVGRINIVKMAILPKVIYRFNAI
				l		PIKLPMTSFTELEKTTFKFIWNH
						KGARIAKSILSOKNKAGGITLPD
					ĺ	FKLYYKATVTKTAWY

NO: of p			SEQ ID NO: in USSN 09/540,217	location of first	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19885 502	2253	A	20001		2314	MDKFLDTYTLPRLNOEVESLN STITGSEIV ALINSLPTKKSFGØD GFTAEFYQRYKEELVPFLLKLF QSIEKEGIL PNSFYEASILLIPKFG ROTSKKENFRPIPLMNIDAKILN KILAKRIQQHIKKLIHHDQVGFI FØMOGWENIRKSINVIQHTNRA KDKNHMIISIDAEKAFDKIQLF MLETLINKLGIGDKYLKIRRAIY DKFTANILINGGKLEAPPLKTOT RQGCPLSPLLFNIVLEVLARAIR RQCEPLSPLLFNIVLEVLARAIR RQCEPLSPLLFNIVLEVLARAIR RQCEPLSPLLFNIVLEVLARAIR RQCEPLSPLLFNIVLSVLARAIR RQCENEKGIGLGKEEVKLSLFAD DMIVYLENPIVSAQNLLKLISNF SKVSGYKINVQKSQAFLYTNINK RYCHSPLSVLKSFAD DMIVYLENPIVSAQNLLKLISNF SKVSGYKINVGKSQAFLYTNINK MAILPKVIYRLNAIPIKLPMPFF TELSCHTKLEFNINVENPLKPLINDIK MAILPKVIYRLNAIPIKLPMPFF TELSCHTKLFIRNOKRARVAKS USCHTLENTLEFNINGK WGKDSLFNKWCWENGLAICK LKJSKTAKAGGITLPFKLYYKAI VTKTAMYWYONROIDQWNRT EPSETPHINNYLIDKPEDKUK WGKLDSLFNKWCWENGLAICK LKJYKKKTNEPIKNSRWIKDLN VRPKTRKTLEENLGITIQDIGMG KOPMSKTPKAMATKDLIDKU VRPKTRKTLEENLGITIQDIGMG KOPMSKTPKTRTYLTVRQPT KWESTAMATCH KRENDOM

2524

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19886	50254	A	20002		2685	MGDENTPLSTLDRSTRQKVNK DTQELDNSAPHQADLIDIYRTLH PKSTEYTFESPAPHHTYSKTOHIL GSKALLSECKRTEIITNYLSDDS AIKLEBEIRKLTQNSSTTWALN NLLLDDYWVHNEMKAEIKMFF ETNENKDTTYQNL WDAFKAVC RGFYALNAHKRKQGRSKIDT LTSQLKELEKQEÇTHSKASRRQ ETKIHRALKERETOKTVQKINES RSWFFERINKIDRQLARLIKKKR EINLIDAIRNDKGDITTDFTEIQ TITIERYYKHSEHTOKTVQKINES RSWFFERINKIDRQLARLIKKKR ENNLIDAIRNDKGDITTDFTEIQ FITRIEPYSKHSHETOKTVQKINES RSWFFERINKIDRQLARLIKKKR ENNLIDAIRNDKGDLITDFTEIQ FITRIEPYSKHSHETOKTVQKINES RSWFFERINKIDRQLARLIKKKR ENNLIDAIRNDKGLEVESLINR FITRIEPYSRAINGLEFERIGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQITDVKDLFKEN YKPLIKEIKEDTINKWNIPCSW YKPLIKEIKEDTINKWNIPCSW YKPLIKEIKEDTINKWNIPCSW YKRINIVKMALIPKVIYERNIPK KLEMTFFTELKFIKTLINFIWNQK VRAHIAKSYLSQKNKAGGITLP FOKLYYKATVYKTAWYWQN RDTDQWNRTEPSEIMPRIYNKU FOKPENKNOWGROSLFINKU FOKPENKNOWGROSLINKU FOKPENKNOWGROSLINKU FOKPENKNOWGROSLINKU FOKPENKNOWGROSLINKU FOKPENKNO

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop eodon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
ļ				sequence		
19887	50255	Α	20003	I	2502	MTELTGIQQPQIVLFEHKGHKL
						VQGSSSDAGKVNRIYQHYEAS
1	ľ			1		DKFNYTTGLAWKTAPEQTGKT
						VRKQQIKLNVKKMESRSKMQE
		ŀ				HSSSPPMEQSWRENDFDELREE
1				ŀ		AFRRSNYSELQEEIQTKGQEVK
1	1	ŀ		i		NFEKTLDEYITRITNTEKCLKEL
				l		MELKAKARELREECRSLRSRCD
Į.		ŀ				QLEERVSVMEDEMNEMKREG
1		ŀ		1		KFREKRIKRNEQSLQEKWDYV
1				1		KTPNLRLIGVPESDGENGTKLE
1		ŀ		l		NTLQDIIQENLPNLVRQANIQIQ
1		ŀ				EIQRTPQRYSSRRATPRHIIVRFT
1		l				KVEMKEKMLRAAREKEIQTTIR
1		ŀ		l		EYYKHLYANKLENLEEMDKFL
						DTYTLPRLNQEEVESLNRPITGS
İ		1				EIVAIINSLPTKKSP/GPVGFTAE
						FCQRK\EGILSISFCEASIILIPKL
		1				GROTTKKENFRPISLMTIDTKIF
1			,			NKILANQIQQHIKKLIHHDQVG
						FIPGMQGWFNICKSINVIQHINR
		1				TKDKNHMIISIDAEKAFDKIQQL
	-	1	ļ			FMLKTLNKLGIDGTYFKIIRAIY
		1	İ			DKPTANIILNGQKLEAFPLKTGT
		ĺ				RQGCPLSPLLFNIVLEVLAGAIR
					l	QEKEIKGVQLGKEEVKLSLFAD
1						DMIVYLENHIVSAQNLLKLISNF
		l		1		SKVSGYKINVQKSLAFLYTNNR
		į .			İ	QTESQIMSELPFTIASKRIKYLGI
				ŀ		QLTRDVKDLFKENYKPLLNEIK
						EDTNKWKNIPCSWVGRINIVK
						MAILSKVIYRFNAIPINLPITVFT
19888	50256	В	20004	I	2115	
19889	50257	A	20005	1	2382	
19890	50258	Α	20006	1	2742	
19891	50259	Α	20007	1	2250	
19892	50260	A	20008	1	2982	
19893	50261	Α	20009	I	4791	
19894	50262	Α	20010	1	2499	
19895	50263	Α	20011	1	3259	
19896	50264	A	20012	1	3654	
19897	50265	Α	20013	1	2391	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide		Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
19898	50266	A	20014	326	1158	LWICEVMVKQRSRILKICLQKQ
						WOKTLAMWLKPCMGTFLLQL
						C*LDIAWV/RAIAVHTASSNLVP
						SLLGLCMIDVVEGTAMDALNS
1						MONFLRGRPKTFKSLENAIEWS
		ŀ			İ	VKSGQIRNLESARVSMVGQVK
		1		l .		OCEGITSPEGSKSIVEGIIEEEEE
		l				DEEGSESISKRKKEDDMETKKD
1		1				HPYTWRIELAKTEKYWDGWFR
				ì		GLSNLFLSCPIPKLLLLAGVDRL
1					i	DKDLTIGQMQGKFQMQVLPQC
						GHAVHEDAPDKVAEAVATFLI
						RHRFAEPIGGFQCVFPGC
19899	50267	Α	20015	I	2860	
19900	50268	A	20016	1	2956	
19901	50269	A	20017	I	3359	MNNSIKEKVKLSLTKWEMQTK
						PNNNTVDLKDAQEVNLTSTDY
						RKQHVMLPTEINSDDSLLKIGVI
		1				RLANWIKSQDPSVCCNQETHLT
		1				CRDTHRLKIKGWRKIYQANGK
						QKKAGVAILVSDKTDFKPTKIK
						RDKEGHYIMVKGSIQQEELTIL
1						NTYAPNTGAPRFIKQVLSDLQR
						DLDSYTLIMGDFNTPLSTLDRS
	1	ł				TRQKVNKDTQELNSALHQVDL
		1		1		IDIYRTLHPKSTEYTFFSAPHHT
1						YSKIDHILGSKALLS
19902	50270	Α	20018	3	3130	
19903	50271	В	20019	8	2398	
19904	50272	A	20020	3	3398	SNSHITILTLNVNGLNAPIKRHR
						LANWIK\SQDP\SVSCIQETHLTC
1						RDTHRLKIKGWRKIYQANGKQ
				1		KKST\VAILVSDKTDFKPTKIKR
			1			DKEGHYIMVKG*IQ*EELTILNI
	1					YAPNTGAPRFIKQVLRDLQRDL
						DSHPIIMGDFNTPLSTLDRSMR
						QKVNKDIQDLNSALHQADLTDI
1		1				YRTLHPKSTEYTFFSPPHHTYSK
1		1			1	TDHIVGSKALVSKCKRTEIITNC
					1	LSDHSAIKLELRIKKLTQNRSTT
		L		L		WKLNNL
19905	50273	В	20021	483	2210	

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19906	50274	A	20022	1	5316	MVKGSIHQEELTILNIVAPNTG APRFIKQVLSDLQDLDFHTLI MGDENIPLSTMDRSTRQKVNK DIQELNSALHQADLIDIVRTLHP KSTEVTFYSAPHHTYSKIDHILG SKALPSKCKRTDIITNYLSDHSA IKLELRIKNLTQNHSTTWKLNN LLLNDYWVINEMKAEIKMFFE TNENKDTTYPSLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEJHSKASKRQEI TKIRAEDINKIDIR
19907	50275	A	20023	2	2712	WRKIYOʻANGKOKKAGVAILVS DKTDFKPYKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTOAPTFI QQVLSDLQRDLDSHTLIGDFN SALHQADLIDIYRTLHPKSTEYI FESAPHHTYSKIDHLOSKAILIGDFN KCKRTEITNYLSDHSAIKLELM KCKRTEITNYLSDHSAIKLELM IKNLTQNISTIWKLNILLINDY WYHKEMKAEIKMFFETYENKD TTYQNLWDTFKAVCRGKFIAL NAHKRAQESKIDTLTSQKINLLLLNDY KUPKURASKIDTLTSQKINLLLNDY KOPKURASKIDTLTSQKINLLLNDY TYQNLWDTFKAVCRGKFIAL NAHKRAQESKIDTLTSQKISSRSFFFERIN KIDR-YTLARVIKKKGEKNQIDT KNDKGDITTDPTEIGTTIRESYK KUPKURANKLENDEY KNDKGDITTDPTEIGTTIRESYK VNSLPTIKKSPGPDGFTAEFYQR YKEELVPFLLKLLQSIEKEGILP HSFYEASIILIPKPGRDTTKKEND TKESINVIQHINRTKDKNHMI LVILEVLARAIRQEKEIGILDK EVKLSLFADDIVDLENPIVS AQNLLKLISNSKQSYKINVQ KSQAFLYNNSKQTSGYKINVG KSQAFLYNNSKQTSGYKINVG KSQAFLYNNSKQTSGYKINVG KSVGRINNSKALDERIDTKWKNIP CSWYGRINNSKALDERIDTKWKNIP

SEQ ID	SEQ ID NO:					Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \mpossible nucleotide insertion)
		L	L			
19908	50276	Α	20024	1	4461	MVASRSSRVGVFYGGQNSVDG
	ł			ļ		VSRRSDGSLNELCLYRPPTGAY
		l			1	LAYDTLDVLPSGQFTVNTPPID
	1	1				VNGKSLLALLWEHTSLLTSMG
	1					GGRWAMQPLGQLGQLEHLGD
		1		Ì	1	RRDQVLDRSGRSRRLDAAQHL
	l	ļ	[l	RHRPDRRPQGMVGVLTNQKEP
	l					RTRWIHSRILPEVQGGTGTVPSE
	1	1			!	TIPIDRKEGILPNLFDEASIILIPK
	1	1			i	RGRDTTKKENFRPISLMNIDAKI
	ì	l				LNKILANRNQQHIKKLIHHDQV
						GFIPGMQGWFNICK
19909	50277	В	20025	1183	4247	
19910	50278	Α	20026	1	2671	MVKGSIQQEELTILNIYAPNTG
		1				APRFIKQVLSDLQRDLDSHTLI
	ì	l				MGDFNTPLSTLDRSTRQKVNK
			i			DTQELNSALHQADLIDINRTLH
	1	1	1		Ì	PKSTEYTFFSAPHHTYSKIDHIV
	l	l	l		ļ	GSKALLSKCKRTEIITNYLSDHS
	l					AIKLELRIKNLTQSRSTPWKLN
	ļ	1				NLLLNDYWVHNEMKAEIKMFF
	1					ETNKNKDTTYONLWDAFKAV
	1	i	ì			CRGKFIALNAYKRKQERSKIDT
	l		l			LTSQLKELEKQEQTHSKASRRQ
	l					EITKIRAELKEIETOKTLOKINES
	ŀ		l			RSWFFERINKIDRPLARLIKKKR
	Į.		1			EKNQIDTIKNDKGDITTDPTEIQ
	ł	1	\			TTIREYYKHLYANKLENLEEM
			ĺ			DTFLDTYTLPRLNOEEVESLNR
	1	Ì	1			PITGSEIVAIINSLPTKKSPGPDG
	Į	i				FTAEFY/PESYL*QTHSQYHTEW
		1	1			AKTGSIPFENWHKTGMPSLTAP
	}	1	{			IQHSVGSSGQGNQAGEGNKGY
		ĺ	1			SIRKRGSOIVPVCR*HDCLSRKP
	1	1	1	İ		HRLSPKSP*ADKQLQQSLRIQN
	1		Ì			QCTKITSILIHQKQTNREPTHE*
	ì	Ì	Ì			TPIHNCFKENKIPRNPTYKGCEG
						PLOGELOTTAORNKRGHKOME
						EHSMLMGRKNQYRENGHTAQ
	1	1	1			GNLOIQCHPLQATNDFLHRIGK
	1					NYFKVHMEPKKSPHRQVNPKP
	1	1				KEOSWRHHTT*LOTILOGYSNO
	1	l				NS\MVLVPKQRYRSMEQNRAL
			1			RNNAAYLHYSD\L*QT*EKQA
						WGKGIP\IYKM\AL\GKLAS\PM*
					L	WOROTH I KWIAL GREAS PM

SEO ID	ISEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X-Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
19911	50279	IA	20027	l	3159	MGDFNTPLSTLDRSSRQKVNK
	1	1		į.		DTOELNSTLHHADLIDIYRTLHI
		1				KSTEYTFFSAPHHTYSKIDHVV
		1				GSKALLSKCKRTEIITNCLSDHS
	1	1				AIKPELRIKKLTONRSTTWKLN
				1		NLLLNDYWVHNKMKAEIKMFI
						ETNENKDTTYONLWDTFKAVS
		1		l .		RGKFIALNAHKRKOKRCKIDTL
		1		ŀ		ASQLKEVEKQEQTHSKASRRQ
ĺ		1		İ		EITKIRAELKEIETQKTLQ\KISES
		1				WSWFFEKINKIDRPQARLIKKK
		1		i		REKNQIDTIKND
19912	50280	Α	20028	2	3767	HRLANWIKSQDPSVCCIQEAYL
1	ł	1				TCRDTHRLKIKGWRKIYQANG
				1		KQKKAGVAILVSDKTDFKPTKI
		1		ŀ		KRDKEGLYIMVKGSIPREELTIL
1	İ	1				NIYAPNPEAPRFTKQVLSDLQR
	1				DVDSHTIILGDFNTPLSALDRSN	
1						RQKVNKDTQELNSALHQADLI
		1		ŀ		DIYRTLHPKSTEYTFFSAPHHTY
		1		1		SKIDHRVGSKALLSKCKRSEIIT
		1		1		NCLSDHSAIKLELRIKKLTQNCS
	i	1				TTWKLNNLLLNDYWVHNEMK
		L		İ		AEIKMFFETNEN
19913	50281	Α	20029	3311	9648	KLYVCITRITNAEKYLKELMEL
	i	1			1	KAKAQELCEECRSLRSRHDQLE
	į	1				ERVSVMEDQMNEMKQEEKFRE
	Ì	1		i		KRRKRNEQSLQEIWDYVKRPN
		1				LRLIGVPESDGENGTKLENTLQ
		1		1		DIIQKNFPNLARQANIYIQEIQEI
	1	1		1	1	QRTPQRYSPRRATPRHIIVRFTK
				i		VDMKEKMLRAVREKGFKPTKI
		ŀ				RRDKEGHYIMVKGSIQQEELTI LNIYAPNTGGPRFIKQVLSDLQ
						RDLDSHTIIMGDFNTPLSTLDRS
						MRQKINKDIQEL
19914	50282	A	20030	2031	6332	ODSNSHITILTLNI\NGLNAPI*R
15514	30202	l^	20030	2031	0332	HD\RNCNWIKSQDPSVCCIQET
	i	1				HLTCRDTHRLKIKGWRKIYQA
						NGKOKKKAGVAI\LVSDKTDFN
	1					PTKIKRDKEGHYIMVKGSIQQE
1						ELTILNIYAP\NTGAPRFIKQVLS
						DLQRDLDSHTLI\MGD\FNTPLS
		1		1		TLDRSRRQKVNKDTQELNSAL
1	1	1				HQADL\IDIYRTLHP\KSTEYTFF
						SAPHHTYSKIDHIVGSKALLSK
						CKRTGIITNYLSDHSAIKLELRI
						KNLTOSR
19915	50283	Α	20031	2	178	
19916	50284	C	20032	88	228	

SEQ ID NO:			SEQ ID NO: in USSN	Nucleotide location of first	Nucleotide location of last codon for last amino acid	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
NO:	of peptide sequence	nou	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		, , , , , , , , , , , , , , , , , , , ,
19917	50285	Α	20033	3	382	VDRTIMSDSLVVCEVDPELTEK
	1	l				LRKFRFRKETDNAAIIMKVDKD
	İ					RQMVVLEEEFQ\FVVYSYKYV
						HDDGRVSYPLCFIFSSPVGCKPE
						QQMMYAGSKTRLVQTAELTK
1						VQTGMWLQSVRERWCGSWV
19918	50286	Α	20034	89	633	KTAELRKEEACGONNHALPGS
						LRQSDSLVVCEVDPELTEKLRK
1		ľ				FRFRKETDNAAIIMKVDKD/RG
						QMVVLEEEF\QNISPQREL\KMG
						FPRRDKPR\FVVYS\YKYVHD\D
l	İ					G\RVSYP\LCFIFPPRPVGCKPE\Q
l		İ				QMMY\AGS\KNRLV\QTAELTK
		l				GVPKSRTT*LTSLRPWL\QEKLS
ł		1				FLSLISGAGD
19919	50287	Α	20035	78	638	WLDLTWKESSADSQLFLEKMD
		l				HSHHMGMSYMDSNSTMQPSH
		1				HHPTTSASHSHGGGDSSMMM
						MPMTFYFGFKNVELLFSGLVIN
		1		i		TAGEMAGAFVAVFLL\AMFYE
		1				GLKIARESLLRKSQVSIRYNSMP
	1					VP\GQNG\TILYGRTHKTVG\QQ\
		1				MLSFPHLLQTVLHIIQV\VISYFL
						MLIFMTYNGYLCIAVA
19920	50288	A	20036	1	849	MSQKMENLIGNAHISAYEIIKEF
i	ł	1				QKEQHQAGLPGTTVPCSCQVY
		l				KCSKRPERVAREGPSEDLEPLP
	ŀ	1				QTVRKCGQGCTLHGAGGSQGQ
	ì	1				VGARPFGIGGVEALWFLASPSY
	1	1		1		WAPLIPQCQLGKLLVVRLVQL
	1	1				QARRELAPMLAPGAACPMVAT
ŀ		1		l		ACLTVQWPDPMLTHTPLTIPHL
		l				TCSLLGGNVELLFSSLVINTAGE
		1				MAGAFVAVIILAVFYEGL\IAQE
		l				SLL*PNGTILM*THKTVGQQML
						SFPHLLQTVLHIIQVVISYLLMLI
10001	50289	-	20037	308	568	FMTYNGSSELLFRGERPR
19921	50289	B A	20037	394	528	
19922	50290	A	20038	186	856	TWGKGDILRRPRRKMSSY/SHF
19923	30271	l^	20037	100	0.00	FVQTCRGG\HKKKHPRLLQVN\
						FSEF\SKEVLQRGWRPMSCLKR
	1	1				KGKILKIWAKAGQGPFLERELK
				l		TLYPLPKGEDQKKKFKDPNCTP
		1		I		RGPPS\AFFPLLALEYPPQKSKG
	1	1		1		EHPWPVPLVDVAEENWETMW
						ELTLLOMDKOP\YEKKA\AKLK
		1	1			EKYEKDIACISSLKGKPDAAKK
		1	ĺ			RELSRPEKSKKKKEEEEDEEDE
		1		l		EDEEEEDE*DEEDEEEEDE
				L	l	EDEBEREDE-DERDEEFEEDE

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19924	50292	A	20040	1	413	GAMRGDRGRGRGGRFGSRGGF GGGFRPFVPHIPFDFYLCEMAFF RVKPAPDETSFSEALLKRNQDL APNSAEQASILSLVTKINNGNE
						KL\VGSPGTLKAHIEKFTRGIPY KRGTVSRGHNVADLGGKLKIL\ PPLEAV
19925	50293	A	20041	70	1451	GAMRGDRGRGRGGRFGSRGGF GGGFKPFVPHIPSDFYLCEMAF\ PRVKPAPDETSFS*GLA*RRNQ D\LAPNSAEQ\ASILSL\VTKINN V\IDNLTCGSQGHFEVAKLEEV\
						RQVGDPIKRGTMTTGHNVA*/L WVVIPQEFWQRLEA\VACPGGN KVVESLR/SHQDPSESFKPCLTN E\TGFEISSSDATVKILITT\VPP\N LRKLDPELHLDIKVLOSALAAI
						RHARWFEENASQSTVKVLIRLL KDLRIRFPGIFEPLTPWILDLLGI HYVAVMNNPTRQPLGLKRWHN RALAWQISGLAGTVSCQGISVG
						YSIDPCESWQL*ELHTVMTLEQ Q\DMV\CYTAQ\TFVRILP\HGGF RKILG\QEVDASYLASEIST\WD GVIVTPFRKRLYEKP\PEK\KEG
19926	50294		20042	253	379	EEEEENTEEPTSRRGRRK\HGN\ SGVTIPLPLLFPNPRGKTGALSC PAYWALHGDRHFPWDREDSRK
19926	50294	A	20042	284	1062	APRNYLPORATASVRROOISFS
17721	33273	^	20043	1207	IVVa	NEHTPHQSLHEIPNVRQRHSGL MKLNTMGAMTTSTTSAVANH* PSNKRTPLVSV/MQSASPEQRQ AVRERMQTNPKIQQRREAARE RIOSASPEORO AVREKMOTNPO
						NQQRRDAARERIQSASPEQRQV FKEKVQQRPLNQQQRDNARQR VQSASPEQRQVFREKVQESRPQ RLNDSNHTVRLNNEQRSAVCE
						RLSERGARRLESLYGRHMQAN PEPPKKNNDKSKKISRKPLAAK

Linknown, III-loo
YPVANHSSI AQRNHELD PNQSPKDT AAAIRLGA PALVVPGL GLPNTAAM VQETTVTE VUGAKGIQI DLSEQEEE QPRTAAV AASGLRSIR
AQRNHELD PNQSPKDT MAAIRLGA SALVVPGL GLPNTAAM VQETTVTE YNPVQEFN ILGAKGIQI DLSEQEEE QPRTAAV MASGLRSIR
AQRNHELD PNQSPKDT MAAIRLGA SALVVPGL GLPNTAAM VQETTVTE YNPVQEFN ILGAKGIQI DLSEQEEE QPRTAAV MASGLRSIR
AQRNHELD PNQSPKDT MAAIRLGA SALVVPGL GLPNTAAM VQETTVTE YNPVQEFN ILGAKGIQI DLSEQEEE QPRTAAV MASGLRSIR
PNQSPKDT AAAIRLGA PALVVPGL GLPNTAAM VQETTVTE YNPVQEFN PLGAKGIQI DLSEQEEE QPRTAAV AASGLRSIR
AAAIRLGA PALVVPGL GLPNTAAM VQETTVTE YNPVQEFN PLGAKGIQI DLSEQEEE QPRTAAV AASGLRSIR
PALVVPGL GLPNTAAM VQETTVTE YNPVQEFN PLGAKGIQI DLSEQEEE QPRTAAV NASGLRSIR
GLPNTAAM VQETTVTE YNPVQEFN ELGAKGIQI DLSEQEEE QPRTAAV AASGLRSIR
VQETTVTE YNPVQEFN LGAKGIQI DLSEQEEE QPRTAAV AASGLRSIR
YNPVQEFN LGAKGIQI DLSEQEEE QPRTAAV AASGLRSIR
LGAKGIQI DLSEQEEE QPRTAAV NASGLRSIR
DLSEQEEE QPRTAAV NASGLRSIR
QPRTAAV AASGLRSIR
ASGLRSIR
ILVQPSQA
ERFDVIDL
OAVSEGG
SNSGETCY
HEMALRIV
VVPLLSIS
QAKVKAS
GAFHLQRL
AACGPPVT
PMWAEPI
SANPGRFH
LPDVPLYY
LLQLRSAL
NAVKTDA
KECPVKRE
PRLQANFT
KRFQA\NP
GKAADEA
EPPEDV\A
NAHQLSSTI
LHADFR\V
APASALW\
RERLSETSP
TIREDANP
EANWGPR
VGLSQGKK
IRGKAADE
CEPP\EDVA
KEGTCQRG
SADAAPDC
AGPGID
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SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19930	50298	A	20046	1	791	MGPSSIHHSSQHATAPQULPKVR AGPRSSGCRISECREEKPPKGR RGLKDATRPGVNWGPDGG VQS GAGAQPWSLITLPPGSVSPAGR AQRESMRAAAQERSPGRRL GKEPLIRESWTRSAPWRCLSQD AGRAGSQVCGSSPQTRGAAAE KVAVTGAKSCSGRGKKAAAAR AKSRGGGRKTQKAAAAKSRG CAGQSSPSKGSRG*IPPGRGQ KAAVAGAESNGGGGKKSRRR HKAAKTRSSGGKNPWRQKAAS AGAK
19931	50299	C	20047	76	327	
19932	50300	A	20048	336	814	ANFSLEDPSCSPPPRLLAGSFVD SPQSLSCMRSKNPLLGSGSPLS PTVIL*ATTPHFLLPQPLITTSPSS PSPPSPPLPPPPPSFSSSYSSSSFF E/NRVPLCCPCFGSAIRKPSPSVS TKARPQGETGRSLALFLPQRP SSSLHRSDTLYRDCVHRI
19933	50301	Α	20049	1	310	
19934	50302	А	20050	1	1482	
19935	50303	Α	20051	3	2455	
19936	50304	Α	20052	3	1441	

2534

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	location of first	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19937	50305	^	20053	sequence .	2322	MAEGKGEAGTFFTGQQDRLLF VFFIITTVVGLFRCSVFSSSSSSSS LSSSSLSSSLSSSSLSSSSLSSSSSLSSSSSS
						NTDAKFQVFLK\Qi\NSSLVDSN MLVRCVTLSLDRFENQVDMKV AEVLSECRLLAYISQ\VPTQMSF LFRLINIIHVQTLTQENVSCLNT\ SLVILML\ARKERLPL\YLRLL\ QR\MEHSKKYPGLL\LNNFHNL

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, !=possible nucleotide deletion, !=possible nucleotide insertion)
19938	50306	A	20054	237	2033	TSPTPLPLPATMPKTISVRVTTM DAELJEFAJOPNTTGKOLPDQV VKTIWLEGKFGFFGLQNQDTIK GFSTWILKLINRKVD*PRNVRKE SPLLFKIFRAKFYPTEDVSEELIQ DITORLIFFLQVKEGILNDDIYCF PETAVLLASYAVQSKYGDFNK EVHKSGYLAGDKLLPQRVLEQ HKLNRDQWEERIQVWHEEIR GML/RGEDAVLEISERLLQDLE MYGVNYFSIKNKKGSELWLG VDALGLNIYEQNDRLITPKIGFP WSEIRNISFNDKKFVIKPIDKK APDFVYAPRLRINKRILALCM GNIELYMRRKPDTIEVQOMK AQAREEKHQKQMERAMLENE RKKREMAEKEKEKIEREKEEL TRAPOTLSQEKRAQSEAGK TORDATSPHOTLSGERGAGSEAGK KTQEQLALEMAELTARISQLE MARQKKESEAVELUGASKDL KKTQEQLALEMAELTARISQLE MARQKKESEAVELUGASKDL KTQEQLALEMAELTARISTPHVA EPAENEQDEQDENGAEASADL RA*SMAKDRSEEERTTE\AEKN ERYSHLELATMSTPHVA EPAENEQDEQDENGAEASADL RA*SMAKDRSEEERTTE\AEKN ERYSHLALATISELANARDES KKTANDMIHAENMRLGRDKY KTLROIRGORTIKORIDEFESM KKTANDMIHAENMRLGRDKY KTLROIRGORTIKORIDEFESM

2536

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
				sequence		
19939	50307	A	20055	2	2230	PRVRLGAHGCPPGPRRCGCCW
						ANGLRSSERCVLESLRPCVQS/
	[1	l	1	l	TRGLRCGCDSAANLDTMAKPI
		l	l			QGAGDRGSIHDFPGFDPNQDA
l l	1	Ì	1		ALYTAMKGFGSDKEAILDIITS	
						SNRQRQEGCHSYK\SLYGK\DL
				1		ADLK\YELTGKF\ERLIVRLMRI
				1		PAYCDAKEIK\DAISG\IGTDEK
		1				CLIEILASRTNEQMHQLVKRIT
						MPTERDLEADIIGDTSGHFQKN
					İ	LVVLLQGTREEDDVVSEDLVQ
						QDVQDLYEAGELKWGTDEAQ
						IYILGNRSKQHLRLVFDEYLKT
						TGKPIEASIRGELSGDFEKLML
						VVKCIRSTPEYFAERLFKAMK
					LG\TRDNTLIRIMVSRSELDML	
		1				IREIFRTKY*/EKSLYSMD/IKNL
						TSG/QSYKKTLLKLSGGDDDA.
						DQFFPKAAQVAYQMWELSAV
					ARVELKGTV\RPANDF\NP\DAI	
				1	AKALR\KAMKGLGTDEDTIIDI	
					THRSNVQRQQIRQTFKSHFGRI	
	1					LMTDLKSEISGDLARLILGLMN
			1			PPAHYDAKQLKKAMEGAGTD
	1	1				KALIE\ILATRTNAEIRAINEAY
						\EDYHKSLEDALSSDTSGHFRR
						LISLATGHREEGGENLDQARE
						AQVAAEILEIADTPSGDKTSLE
						RFMTILCTR\SYPHVRRVIQEFII
						LTNYDVEHTIKK\EM\SGDIRD
						F\VAIVQ\SAKTKPLFFPDK\LYk
		L_				SMKG\AGTDEKTLTRIM\VSR\0
19940	50308	Α	20056	3	368	
19941	50309	Α	20057	1	936	MMKCEEQKEEEEETVRMFSAA
	l					SQPLDPDGTLFRLRFTAMVWW
						AITFPVFGFFFCIIWSLVFHFEY
						VATDCGVSASSPAPGSGPG\PN
	1					YLPSVSSAIGGE\VPQRYVWRF
						IGLHSAPRFLVA\FAYWNHYLS
l	1		1			CTSPCSCYRPLCRLNFGLNVVE
	1					NLALLVLTYVSSSEDFTIHENA
	1		1			IVFIASSLGHMLLTCILWRLTKI
	1	1	1	1		HTVSQEVRSIPSGGSKAAQKKI
						KDICPQDSGNGEDRKSYSWKQ
	1	1	1			RLFIINFISFFSALAVYFRHNMY
	1	1	1			CEAGVYTIFAILEYTVVLTNMA
		L		L		FHMTAWWDFGNKELLITSQPE

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide sequence	hod	in USSN 09/540,217	location of first codon for peptide	of peptide sequence	*=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
	sequence		057540,217	sequence	or peptial sequence	dection, e-possible nacreolide insertion)
		_		1		
19942	50310	Α	20058	119	930	ESLFPSLAFLSPSKPLFSHPPSFH
		1				LSNKQDTSPCSCVLSSPFSLRTE
l						ASIGVPGIKMDGGNAQEHGHFL
		1				RLPQVPNYLPSVSSAIAREVPQR
l	i	l			1	YVWRFCIGLHSAPRFLVAFAY
1		l		İ		WNHYLSCTSPCSCYRPLCRLNF
				l		GLNVVENLALLVLTYVSSSEDF
		1				/TWVPG*GRSGEVFPEGTGLPLP
1						HSDLPTSWCGHSLQCGSQSSFP
		l		l		PAIHENAFIVFIASSLGHMLLTCI
ĺ		l		l		LWRLTKKHTVSQEVRSIPSGGS
						KAAQKKIKDICPQDSGNGEVGT
						EF
19943	50311	Α	20059	3	206	
19944	50312	В	20060	80	304	
19945	50313	Α	20061	1	2111	MAATGTAAAAATGRLLLLLLV
				l		GLTAPALALAGYIEALAANAGT
				l		GFAVAEPQIAMFCGKLNMHVN
						IQTGKWEPDPTGTKSCFETKEE
		1		ł		VLQYCQEMYPELQITNVMEAN
l				ŀ	1	QRVSIDNWCRRDKKQCKSRFV
İ	1	1				TPFKCLVGEFVSDVLLVPEKCQ
				l		FFHKERMEVCENHQHWHTVV
ĺ]	1		ł		KEACLTQGMTLYSYGMLLPCG
		1				VDQFHGTEYVCCPQTKIIGSVS
ŀ						KEEEEDEEEEEEDEEDYDV
	Í	1				YKSEFPTEADLEDFTEAAVDED
						DEDEEGEEVVEDRDYYYDTF
					ì	KGDDYNEENPTEPGSDGTMSD
						KEITHDVKVPPTPLPTNDVDVY
l		l				FETSADDNEHARFQKAKEQLEI
		1			ļ	RHRNRMDRVKKEWEEAELQA
•						KNLPKAERQTLIQHFQAMVKA
1						LEKEAASEKQQLVETHLARVE
		1				AMLNDRRRMALENYLAALQS
		l		l		DPPRPHRILQALRRYVRAENKD
			i	l		RLHTIRHYQHVLAVDPEKAA\Q
		1		1		MK\SQVMTHL\HVIEERRNQSLS
		1		1		LLYKVPYVA\QE\IQEEIDDVLQ
	l	1				EQRADMDQFTASISE\TPVDVR V\SSDESEEIPP\FHPFHPFPAPT*
	1	1		l		ERRILGVGRAGWGGLIGAEEK VINSK\NKVDE\NMVH*TRLLD
	l	I		l		1
l		l				VKEMIFNAERVGG\LEEERESV
1		1		l		GPLREDFSL\SSSALIGLLVIAVA
		1		1		IAT\VIVISLVMLRKRQYGTI\SH
				L	L	GIVE/VVDPMLTPEERHLNKMQ

SEO ID SEO ID NO: of peptide hold in USSN locationide location of last Amino acid sequence	AATATAGVL ALALAGYIEA LEPSNSPMFC GK\WEP\DPN EVSSSYF\QEN AKPAGLRID KSFPCYTFSS QHW\HTVSQ JIIANGMPASF
19946 50314 A 20062 61 2634 SQPAEGKWSTON LLPAACGA*TAPA LAANAGTGAWA GKLNMPCETFOTT QAPKSCF*NOKEE YPRAYRSONVME NIWCKRDKKQC CLVG*IL*SDVPAI HKKEMEVCENH KKAMS*PPGK*PL CGGRTS*HGTGY GSCV/TKEEEEEE KGDYAYYKGMF EALAVDEDDEDEF EYYYDTFKGDDV SAATMSDLKEITH AMMTGPCRAVMPI	AATATAGVL ALAL\AGYIEA LEPSNSPMFC GK\WEP\DPN EVSSSYF\QEM AKPAGLRID KSRFCYTFSS KFPEKVPSFF Q\HW\HTVSQ JIANGMPASF
19946 50314 A 20062 61 2634 SQPAEGKWSTGN LLPAACGA*TAPP LAANAGTGFAYOR QAPKSCF*NOKEE YPRAYRSQNVME NNWCWRDKKQC. CLVG*IL*SDVPAI HKUERMEVCENNH KKAMS*PPGK*PL CGGTSFHGTEIY GSCV/TKEEELEEL KGDYAYVKGMF EAAVADEDDEDEF EYYYOTFKGDDV SAATMSDLKEITH AMMTGPCRAVMPI	ALAL/AGYIEA LEPSNSPMFC GK/WEP/DPN EVSSSYF/QEM EAKPAGLRID KSRFCYTFSS KFPEKVPSFF IQ/HW/HTVSQ JIIANGMPASF
LLPAACGA*TAP/ LAANAGTFAVA GKLNMPCETFQT QAPKSCF*NQKEE YPRAYRSQNVME NWC\RRDKKQC\ CLVG*IL*SDVPAI HK\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ALAL/AGYIEA LEPSNSPMFC GK/WEP/DPN EVSSSYF/QEM EAKPAGLRID KSRFCYTFSS KFPEKVPSFF IQ/HW/HTVSQ JIIANGMPASF
LLPAACGA*TAP, LAANAGTGFAVA GKLNMPCETFQT QAPKSCF*NQKE YPRAYRSQNVME NWCRRDKKQC: CLVG*IL*SDVPAI HKVERMEVCENH KAMS*PPGK*PL CGGRTS*HEIGT GSCV/TKEEEEEEL KGDYAYVKGNF EAAVDEDDEDFF EYYOTFK GDDV SAATMSDKEITH AMTGPCRAVMPI	ALAL/AGYIEA LEPSNSPMFC GK/WEP/DPN EVSSSYF/QEM EAKPAGLRID KSRFCYTFSS KFPEKVPSFF IQ/HW/HTVSQ JIIANGMPASF
LAANAGTGRAVA GKLNMPCETFQT QAPKSCF*NQKEE YPRAVYSQNVME NWCNRDKKQC CLVG*IL*SDVPAH HKVERMEV*CHAN KKAMS*PPGK*PL CGGRTSFHGTELY GSCVTKEEEEEE KGDYAVYKGNF FAAVADEDDEDFE EYYYDTFKGDDV SAATMSDKEITH AMTGPCRAVMPI	LEPSNSPMFC GK\WEP\DPN EVSSSYF\QEN EAKPAGLRID KSRFCYTFSS KFPEKVPSFF IQ\HW\HTVSC JIIANGMPASI
GKLNMPCETFOTI QAPKSCF*NOKEE YPRAYRSQNVME NWCNRDKKQC CLVG*IL*SDVPAI HKURMEVCENH KKAMS*PPGK*PL CGGRTS*HGTSYT GSCV/TKEEEEEE KGDYAYYKGMF EAAVDEDDEDEF EYYYDTFKGDDV SAATMSDKEITH AMTGPCRAVMPI	GK\WEP\DPN EVSSSYF\QEN EAKPAGLRID KSRFCYTFSS KFPEKVPSFF IQ\HW\HTVSQ JIIANGMPASF
QAPKSCF*NOKEE YPRAYRSQNVME NNWCWRDKKQCC CLVG*IL*SDVPAI HKUERMEVCENNH KKAMS*PPGK*PL CGGRTSFHGTEIY GSCV/TKEEELEEI KGDYAYVKGMF EAAVDEDDEDEF EYYYOTFKGDDV SAATMSDKEITH AMMTGPCAAVMFI AMMTGPCAAVMFI	EVSSSYF\QEM EAKPAGLRID KSRFCYTFSS KFPEKVPSFF IQ\HW\HTVSC JIANGMPASF
YPRAYRSQNVME NWCMRDKKQIC CLVG*IL*SDVPAI HKJERMEVCBNH KKAMS*PPGK*PI CGGRTSFHGTEIY GSCVTKEEEEEE KGDIYAVYKGNF EALAVDEDDEDEF EYYYDTFKGDDV SAATMSDJKEITH AMTGPCRAVMPI	AKPAGLRID KSRFCYTFSS KFPEKVPSFF IQ\HW\HTVSQ JIANGMPASF
NWCRRDKKQC CLVG*IL*SUVPAI HKUEMEVCENH KKAMS*PPG*F CGGRTS*HGTSY GSCV/TKEEEEEE KGD)YAVYKGNF EAAVVEDDEDEF EYYYOTFKGDDV SAATMSDKEITH AMTGPCRAVMPI	KSRFCYTFSS KFPEKVPSFF IQ\HW\HTVSQ JIIANGMPASF
CLVG*IL*SDVPAI HKVERMEVCENH KKAMS*PPGK*PI CGGRTSFHGTEIY GSCVTKEEEEEEI KGDYAVYKEF EA\AVDEDDEDEF EYYYDTFKGDDY SAATMSD\KEITH AMTGPCRAVMPI	KFPEKVPSFF Q\HW\HTVSC JIANGMPASI
HKJERMEVCBNH KKAMS*PPGK*PJ CGGRTSPHGTEIY GSCVTKEGEGEG KGDYAVYKGNF EAJAVDEDDEDEF EYYYDTFKGDDY SAATMSDJKEITH AMTGPCRAVMPI	Q\HW\HTVSQ JIANGMPASF
KKAMS+PPGK-PL CGGRTSFHGTELY GSCV/TKEEEEEI KGDYAVYKGNF EALAVDEDDEDEF EYYYOTFKGDDV SAATMSDJKEITH AMMTGPCRAVMPI	JIANGMPASI
CGGRTSFHGTEIY GSCV/TKEEEEEEI KGDIYAVYKGNF EA\AVDEDDEDEF EYYYDTFKGDDY SAATMSD\KEITH AMTGPCRAVMPI	
KGDIYAVYKGNF EALAVDEDDEDEF EYYYDTFKGDDY SAATMSDKEITH AUMTGPCRAVMPI	
EA\AVDEDDEDEF EYYYDTFKGDDY SAATMSDKEITH AWITGPCRAVMPI	E\EKEEEEDE
EYYYDTFKODDV SAATMSDKEITH AMTGPCRAVMP	LL*ADLEDST
SAATMSD/KEITH A\MTGPCRAVMPI	REGEDVVEDE
SAATMSD/KEITH A\MTGPCRAVMPI	NEENPN\DPC
	LWYFYLSKĠ
KCVRFIYGGCGG	NRNNF*SEDY
CMAVCKAMIPPT	PLSTNDDDVI
F*TSKDDNEHARI	HKAKEHVVI
RPRNRMDRLK*E	W*YAQL\QLK
\NLPKAERQ\TLIQ	HF\QA\MVKA
LEKEAA\SEKQQL	VET/HTLARV
EAMLND\RCLMA	LENY\LAALQ
SDP\PRPHR\ILQAI	LRRYVRAEN
KDRLHTIRHYQH	VLAVDPEKA
AQM/KSQVM/THI	AHVIEERRNQ
SLSLLYKVPYVAC	QEIQEEIDELL
QEQRADMDQ\FTA	ASISE\TPVDV
\RVS\SEGRGEIPPF	HPFHPFPALI
ENEDTQPV/LYHP	MKKGSGVGE
QDGGLIVAEEK\V	INSK\NKVDE
19947 50315 A 20063 734 1049 CCPPGGTGRCLGT	CGYHN/CGC
	SGRR*TFWM
VWSACVCASGCL	PGGNRCCCP
VSLSPERIAVLGG	LLPRKPPCRV
VGERRSVLTLQA	rsqcpr
19948 50316 A 20064 6 1174	
19949 50317 A 20065 285 567 SRRRSSSYERSGS	YSGRSPSPYG
RRRSSSPFLSKRSI	LSRSPLPSRKS
MKSRSRSPAYSRI	ISSSHSKKKR
SSSRSRHSSISPVR	LPLNSSLGAE
LSRKKKERAAAA	
ESSYERSGSYSGR	
SSPFLSKRSLSRSP	
RSRSPAYSRHSSS	HSKKKRSSSR
SRHSSISPVRLPLN	ISSLGAELSR
KKKERAAAAAA	KMDGKESK
GSPVFLPRKENSS	VEAKDSGLE
SKKLPRSV	

SEO ID	SEQ ID NO:	Met	SEQ ID NO:	Nuclcotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
19950	50318	Α	20066	214	805	LGLQAANDLHLEYAMGKRYFC
ł						DYCDRSFQDNLHNRKKHLNGL
						QHLKAKKVWYDMFRDAAAIL
			j			LDEQNKRPCRKFLL\TGQRDFG
			İ			SN\CRFS\HMSER\DLKEL\SIQVE
						EGRGEPREWLL\DAPELP\EGHL
						GGLGLEERRAKRLELQPQVSQ
						G*NPFRTT/VSFQ*PRRVGQPSS
İ						GSLPPNSCGHPPPGGLALLQPR
						V\QWG
19951	50319	Α	20067	2	418	
19952	50320	Α	20068	1	1134	ATTARREGAPGTPSLAAEGNGL
						SARVDEGVEEFFSKRLIQQDRL
						WAPEEDPATEGGATPVPRTLRK
İ						KLGTLFAFKKPRSTRGPRTDLE
						TSPGAAPRTRKTTFGDLLRPPT
ł						RPSRGEELGGAEGDTSSPDPAG
						RSRP\PTQEIARPTR*YCCLPRRR
				l		QRWVPDPTSGGPWSGEKQNWL
						HPLNSGYK*CCRG*ASAEAAGV
		1				PKARGSKAKMARSRKLAQMV
						TLWTVPRRPLPSRSSPAPT/PVS
		1				ADPSCRPGPGSQGPESATWKTL
						GQQLNAELRSRGWGQQDGPGP
		ł				PSPGQSPSPCRTSPSPDSLGLPED
						PCLGPRNEERPLRLQRSPVLKR
					1	RPKLEAPPSPSLGSGLGTEPLPP
						QPTEPSSPERSPPSPATDQRGGG
19953	50321	Α	20069	3	206	
19954	50322	Α	20070	3	349	
19955	50323	Α	20071	226	610	
19956	50324	В	20072	18	1306	

SEOID	ISEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first		*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
19957	50325	A	20073	3	1665	LRPQGREGGDWEGGRSPFSLPY
						GSLRGRVVSTAQFRVPMPSASA
ł				1		SRKSQEKPREIMDAAEDYAKER
		l		1		YGISSMIQSQEKPDRVLVRVRD
						LTIQKADEVVWVRARVHTSRA
	İ			l		KGKQCFLILRQQQFNVQALVA
		l				VGDHASKQMVKFAANINKESI
						VDVEGVVRKVNQKIGSCTQQD
						VELHVQ\KIYVISL\AEPRLPLQL
				1		DDAVRPEAEGEEEGRATVNQD
						TRLDNRVIDLRTSTSQAVFRL\Q
1				ł		SGICHPLRETLINKGFVEIQTPKI
ŀ				1		ISAASEGGANVFTVSYFKNNA\
l		l		Į.		YLAQSPQLYKQMCICADFEKVF
l	l	1		l		SIGPVFRAEDSNTHRHLTEFVG
	ļ					LDIEMAFNYHYHEVMEEIADT
	l	l			1	M\VQIFKGLQER\FQTEFQTVNK
		1		1		QFPCEAISNFWEPTLRLEYCEAL
		l		1		AMLRGKLESEMG\DEDDLSTPN
		l				EK\LLG\HLVKEKYDT\DFYILD
ŀ		l		1		KYPIGL*RPF/HLYPCP*PPRNPQ
						QVPTLTNMFHEREKKYLSGAQ\
				i		RIH\DPQL\LTERALH\HGI\DLEK
		1				IKAYIDSFRFGSPSP/HAGGGIGI/
		<u></u>				ENRVTMLFLGLHNV\RQTSHVP
19958	50326	Α	20074	3	424	
19959	50327	Α	20075	178	859	
19960	50328	C	20076	304	592	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide locatinn of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X-Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19961	50329	A	20077	1381	2936	ITNPRPSPGLARWAESYEAKCE RRQEIRESRRCRPNVTICRQVG KTLRIQOREQLQRARLQOFFRR RNLELEEKGKAQHFQAREQGY SRRPGQVTVLKEPLSCARRISSP REQVGRVKGHTAVCSGTLSGQ GGWV/RRPPSLHRACRES*DNC PSSLALTLSHPHISSLERTQ*USH ALTFWISMIPPRSSRLILPQASD SSW/KGKGMKFFLNKAWASMC SHLIFLSTGKHSEGYFHLRNLEL NEKNYFENKAKESLJRVLEEK MNAEQQLQSTQWGCHIDMG LGTPGSLGNKGSQLQRTLGTQH RELESQLHVLQSKLQVPOTGGG EGRQGMGRAGDGPRSCSAKIE CLQGDRDLCSLDTQDLQGTLLL GGLECMAAMAK*AKKETEAF QILKYHRVFLGSWPTKGTQVW SPKSFPNEVEPEGTGKEKDWDL SPKSFPNEVEPEGTGKEKDWDL RODQLGKKTLQJAKEKEVRG* PEIVRAHLRNSRETWEAVKNCR EELNGSQQLPPRVRGSLLPIRF WMMGRELJ-PSFAHKDNLMI
19962	50330	В	20078		1173	WINIORF LE PSFARKDINEINI
19963	50331	A	20079	16	1584	SSRFLFSLGWLWEAPEVGTRSG WLQRRPGLGAGLGGGEKQFL PALLSFFIYNFRWPREGEENK ILFYHPNEVEKNEKIRNVGLCE AIVQFTRTFSPSKPAKSLHTQKN ROFFNEPEENFIWMYMVVRCP! IEKQSKDGKPVIEY\QEEELLDK VYSSVLRQCYSMYYLENGGISFPPL LOTLHLQSCOLLDIFGGISFPPL LOTLHLQSCOLLDIFGGISFPPL LATELYNDQLIWSGLEQDDM RILYXYLTTSLFPPHIEPELAGR DSPIRAEMPGNLQHYGRFLTOP LNLNDPDAKCRIFFKIFVNTDDT JEELHLIVYKAMSAAVCFMID ASIHPTLDFCRTGTASLGPQL RSGWASGHLVEQFNINKGDVP GLRKUPQFKFIYFNHMNLVEK STVHIEENAPACPLTSVHPDLM KIPR*PSNSDLYPRVUDEDEGDH C*RALSDYWVVGKKSDPAGS LYVIFEIQKNAKP*LKX*RSK KPLCNASSNNILPSLD

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide		Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
19964	50332	Α	20080	85	420	LSNLFLHATNDGALTSTTIPHPP
				ŀ		MRQPTS/S/GDGSEIFLHTELKLL
						EPPHAWPQSCPPRL*MTRQQLL
						PMTFLLKAHSKAGIESPGLNPR
		1				PGFSLHPVLPAASSAAFLLPSFR
19965	50333	A	20081	220	563	
19966	50334	В	20082	1	576	
19967	50335	Α	20083	111	3586	TMFGLKPPLYFLPGSSLSSESSP
		l				VSSPATNHSSPASTPKRVPMGPI
						IVPPGGHSVPSTPPVVTIAPTKT
						VNGVWRSESRQDAGPRSSSGG
		l		i		RERLIVEPPLPQEKAGGPAIPSH
				ŀ		LLSTPYPFGLSPSSVVQDSRFPP
		i				LNLQRPVHHVVPPSTVTEDYLR
1				l		SFRPYHTTDDLRMSSLPPLGLD
				İ	İ	PATAAAYYHPSYLAPHPFPHPA
						FRMDDSYCLSALRSPFYPIPTPG
						SLPPLHPSAMHLHLSGVRYPPE
						LSHSSLAA
19968	50336	Α	20084	576	1261	GDDLCSVGAPCRSTWACSTPLR
						CVRRSREFPGLPHAAGAARGFR
					i	LPAGRPVPARPGAAAARAAAA
						GEAHRPLPCGRRPGPVRRAAVP
i				l		PRPRPPRRGLRGRREGPAAPAG
						PGGPSLLCASAGRHGPPGLRAG
1						QGLRDSAGEAGGEPAP/AGPRP
j				l		EASP*RSSLCENTCTEAGLGPRR
					i	AAGDLGSPWLTSGLLWGSFFLF
ł				l		FLFFFVILRQSLLLSPKTEVAVA
						QLMSHCSL
19969	50337	Α	20085	248	356	EGEEEGDEENDPD\MTQRRIKT
						QQSASSSEAGCMWP
19970	50338	Α	20086	1043	1191	NFYFSCKNKNKANKQQITWK\
				l		KGLSNGCKFILSGGRQKGRTLP
		1		l		QRERMA

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*≈Stop eodon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
19971	50339	Α	20087	287	1401	CQNPQIPCSPFKKRLDG/LWVET
						PT\GYIESLP\RVVKRR\VNALKN
		1			1	LQVKCAQIEAKFFE/EKVHGFFE
		1				RKYAVL\YQPLFD\KRF\EIINAI
	1	1				YEPTE/EKECEWETR*RKDEDF
	İ				1	GGNWKEKGQIEDEKKDE\EKE
	İ				l	DPKG/IFPEFWLTVFK\NVDLLS
l	1	ŀ		i		DMVQEH\DEPILKH\LKDIKVKF
	ł	l				SDA\GQPMSFVLEFHF\EPNE\YF
						TNEVL\TRTYRMRSEP/DTRLIL
		1				DPFSFDGPEIMGCTGCQIDWKK
1		1			i	GKNVTLKTY*GGGRKHKGRGT
		ı				\VRTVTKT\VS\NDSFSNFFPP\PE
	ŀ	l				IPE/DVGDLDDDAGSLFLAGRLS
		1				EIWFTFYRERIIPRSSVNILPGEA\
						IEDDDDDYDEEGEEADEEGEEE
						GDEENDPRLLTQR\RIKTQQSAS
19972	50340	Α	20088	1	350	DNLEAEAVAPCTAAARAVAPD
						LFVFAA*PESVSAGGPQQPCRSP
	i					IVKPGLPSFRPSSCTQPWLTHSW
						AEDVDLRVNFAMNVGKARGFF
						KKGDVVIVLTGWRPGSGFTNT
						MRVVPVP
19973	50341	A	20089	1	399	
19974	50342	A	20090	1	394	
19975	50343	В	20091	82	351 789	COMPANY OF THE PARTY AND THE P
19976	50344	Α	20092	3	789	CGTSRMCHTTEELA/SDPIL/YRP
		l				LAVALDTKEPEI/RNGLIKGSGT SEVELKKGATLKFTRNNAY/ME
		l				
		l				KCDENILWLDYKNICKVVEVG
		l				SKIYVDDGLISLQVKQKGADFL VTEVENGGSLGSKKGVNLPGA
	1	l				
	1	1				AVDLPAVSEKDIQDLKFGVEQD VDMVFASFIRKASDVHEVRKV
		1				LGEKGKNIKIISKIENHEGVRRF
						DEILEALGHWAVVPLKPTLALA
						LTCFSSSLGLSSLHLSPPSTOLSC
						SKHSTLHLPFSPTTAAPPGLLL
19977	50345	A	20093	3	424	SKIISTLEILFFSFTTAAFFÜLLL
19977	50346	A	20093	2	173	IYHLQLFEELR/RLAPITSDPTEA
1.22/8	150540	l^	20074	ľ	l	TAVGAVEASFKCCSGAIIVLTK
		l			1	SGRSAHQQELGP
19979	50347	В	20095	1	1362	00101110000
17717	120247	ъ-	20075	1,	1.502	L

SEQ ID NO:	SEQ ID NO: of peptide sequence	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
	of peptide	in USSN	location of first codon for peptide	codon for last amino acid	"*Stop codon, "possible nucleotide deletion, "possible nucleotide insertion) QRONLEAEAVAPCTAAARAVA PDLLRLCSVRPSRSAPEDRQOP PDLLRLCSVRPSRSAPEDRQOP CLFSHSEAGTAFICITQQLHAA\ MADIFFLWEHMCRLJDIDSPPIT ARNTGILICTIGGQLPQOVETLAEA EDD*SLGMKCGSVLNFSSWEL HGVTMRETIQGMWRTANGKA FAFLTPFLLPGPLAVGFRTLKGP EIPBWGSSKGNGTAEVGA*RK GATLKFTLJDNAYMEKCDENI LWL DYKNICKVWEVGISKIYV DDGLISLQGKQKIGADFLVTEV ENGGSLGMKGVNLPGAAVD FACLGRRDIQDLKFGVEQDV DGLISLGSLGKGVAGADFLVTEV ENGGSLGMKGVNLPGGAVD FACLGRRDIQDLKFGVEQDV MVFASSPPGSLIMFHEVRKVL GEKGKDHQGLSSKIRESMRGF RFDIEILEASDGILWARG*F "*ALRIPAEKIVFLAQKMIDLDRF NRAIGKPVICATQMLESMIKKP EPTRAIEGSDVANNAVLDWKPT CIMLSWEKQPKGDVPLLEAVIR MQIHLIAREARWPLSYFHLQLF MQIHLIAREARWPLSYFHLQLF ELRPPGAQLTSDPTEATAVGIA
					EELRPPGAQLISDPTEATAYGA VEASFKCC\SGAII\VLTKSGKVC SPRLARYRPRAPIIAVTRNSPGK LVRAHL\YRGIFPG\VCQGPDSR RAWA*DIG\LRVKLCHGMFGK
					ARGFFQERGDVVHCA*PEWRP WLPAPPNNMRVVPCCRDGPRG PSSSRPCSHPFFPKPIPFRPSNGL VELHSGAVNVATG

SEQ 1D	SEQ ID NO:	Met	SEQ 1D NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
19981	50349	Α	20097	215	1893	TVTFSQCRFGKMLPLEKAFASP
				l		QELPSPAGSAHAGVSSRSSSRK
						NPRPSLRGPLLTLEFSRLRFREF
						VY\QEAAGPHQTLARLHELCRQ
l						WLMPEARSKEQML/ESLLVLEQ
						FLGILPDKVRPWVVAQYPESCR
						SSLLVEGLADVLEEPGPSTVDR
						DAAGLPCGLILNS*RWSVREAH
		i				GPSAATRRAREPQPGPWSWGD
		1				PGTF*DTLAFSGPPVSGTEEGQ/
1		1				MKQRPKRTALP/HTEQVGGHE
						QVGGRSQ/RTTNVSEAEVLSRG
		l				PSAPGGVGPPGPC\EENLKSYRK
				ĺ		LLLWEGGRRQESAGCACEEAA
ļ						PAG\GCLSCLRRRPLGTPLPIPRR
1		l				A\H*GGGRAAWEGPGPAGPPGR
		1				GVRLCHRIAEAVRHPAACP/ET
						GARRNWEPRGRTPRMGTGRAS
i i						RA/CSSSGDSAGLEAGQGPGAD
						EPGLSRGKPYACGECGEAFAW
						LSHLMEHHSSHGGRKRYACQG
1						CWKTFHFSLALAEHQKTHG\KE
						KSYALGGARGPQPSTREAQAG
			l			ARAGGPPESVEGRGSPRTPRGA
				ì		EVSRCAVPFRRGRFAGRESQTR
						HWAFPRPWVAASCGVCGRPLP
19982	50350	Α	20098	5	372	
19983	50351	Α	20099	1	129	
19984	50352	Α	20100	1	627	
19985	50353	Α	20101	1	441	
19986	50354	В	20102	1	477	
19987	50355	Α	20103	2007	2156	L

SEO ID	ISEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
			l	sequence		
19988	50356	Α	20104	1	717	MKLRTLAVSVTALKVARLGSA
						PSDVQMCLEFLPSDSGAQLASP
						SGSRTGAAGGAACQSGAVRSY
			İ			SSALGWSMGLGAVEQGVVLV
						GDARAAQEPMEWMGGSGMAG
						CRSRALHRGKAAKARREIEHSA
						GRKGLFGSARLIPATAMAPRSR
						LLSLGRRGNFRSRVLRRKSRPL
					•	EEAARRWRDCPTGFGALVAGA
						GSGRAPGVPPKRLPARTKAOVS
1						RETRGSGEVTAQGGKGPRGLW
						ILLWGFYNLLPTTSHAESYPERL
						IOKVVSEKIARALARYLHLPFG
1						LLGGNKTIVYSWEALRFHHOLT
		l				PSVITNTVIKVYEEPKLSOOKSR
1						TLDVSTDEEDKIHHSSESKDDQ
			1			GLSSDSSSSLGEKELSSTVKIPD
					i	AAFIOAARRKRELARAODDYIS
i		1				LDVQHTSSISGMKRESEDDPEIS
		1				RNEETSEESQEDEKQDTWEQQ
				I		OMRKAVKIIEERDIDLSCGNGS
		i		i		SKVKKFDTSISFPPVNLEIIKKOL
				l		NTRLTLLQETHRSHLREYEKYV
		1				QDVKSSKSTIQNLESSSNQALN
				l		CKFYKSMKIYVENLIDCLNEKII
		1				NIQEIESSMHALLLKQAMTFMK
		1				RRODELKHESTYLOOLSRKDET
		1				STSGNFSVDEKTOWILEEIESRR
		l		l		TKRRQARVLSGNCNHQEGTSS
		1				DDELPSAEMIDFOKSOGDILOK
		l				QKKVFEEVQDDFCNIQNILLKF
		1				QQWREKFPDSYYEAFISLC*RQ
19989	50357	Ā	20105	154	744	* * * * * * * * * * * * * * * * * * * *
19989	30337	Ι^	20105	134	/44	SQRNLCLGRVWYILFFLFAFLQ
					ĺ	TLELVSHERRGRTGITNA*VSNS
						PRRELGFHVL*R*QFLLLFLFSH RLRSPAGFT*WIPHRGCRWSCL
						PVLRHALAFLSPWVVDGTGRR
				i		GAGGGARRGGSGHTGAHGVG
						GRLRHGRLQVPSPLRARSPFLLS
				l		CTLSCQLDSPCLTCSQGHQYKY
19990	50358	D.	20106	1	531	QHSDKGKRLTIVTKSFDFIPS
19990	50358	B C	20106	99	323	
19991	50360	A	20107	305	658	
19992	50360	В	20108	79	936	
19993	19600	ГВ_	20109	, et l	סנפ	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	sequence	.,,,	, , , , , , , , , , , , , , , , , , , ,
19994	50362	A	20110	381	1169	LPSRGAGLGTCSPPCLSLPPTPW
		1		l		APVRPEPPQGAPPPAPRRPVPST
ĺ						TQGLRSASARHGTGRQLHLQP
İ						WCGIHWVKLAGLLSLVGSQHL
1						RGQGSRAAAALTHMHS/PHAC
1						THAHTRAEPLRLPPPPRPLPPPL
				1		SPPPLRLCCLRSLFPCPLTESAA
ļ		ĺ				KAGSKKFHSVQEIPSPAVCELG
				1		VGTVLHIDPEKWRAGRENVET
				1		GGKRTGSGKDSTGRGWGQTD
		1		1		YGLGKKERTEEASRSCICLVCV
		1				SMRRDALCGQSVGSHFCQWSL
19995	50363	Α	20111	3	4804	KRLENIQKTLEVAFSEAVWMQ
		ŀ				PSVVLLDDLDLIAGLPAVPEHE
		l				HSPDAVQSQRLAHALNDMIKE
		l				FISMGSLVALIATSQSQQSLHPL
						LVSAQGVHIFQCVQHIQPPNQE
						QRCEILCNVIKNKLDCDINKFT
						DLDLQHVAKETGGFVARDFTV
		1	1			LVDRAIHSRLSRQSISTREKLVL
				l		TTLDFQKALRGFLPASLRSVNL
i		1				HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT
				ł		GILLYGPPGTGKTL
19996	50364	Α	20112	2	1844	GILLIGITGIGKIL
19997	50365	A	20113	746	1215	PNINRFLKHYREPVPKKRERNY
1	50505	``	20113	1,70	1.2.5	STLWPLCPSTLNKIYTIMSYLSP
						ATKEYPFFLLLLEQEC*AE*LLA
1					1	LAVSOPLLSSTTNCLKN*MVTW
						NGSLIPWSPCKINLTP*/PAVVL
				l		QNRRALDLLTAESGGTFLFLEE
1						KCCCYVNQSGIITEKVKEIQGRI
19998	50366	Α	20114	1	1338	
19999	50367	В	20115	1	4935	
20000	50368	Α	20116	3	421	
2000I	50369	С	20117	33	571	
20002	50370	Α	20118	3	323	
20003	50371	Α	20119	146	809	EKCRHNCSSRVWQSLVSQSVW
						ATEGQYGRTKNARPVQVK\DS
1				1		ASFPYQRRYPLRLEAQQGLQKI
						VKDLKAQGLVKPFNSPCNTPIL
				l		GVQKPNGQWKLVQDLRIINEAI
1				I		VPLYPAVPNPYTLLSQIPEEAE
				l		WFTVLDLKDAFFCIPVHRESQF
1				l		LFAFEDPSNPTSQLTWTVLPQG
1			1			FRNSPHLFGQALAQDLSQFSYL
20004	50372	_	20120	3	1147	NTLVLRYLDDLLLAAHLETLCH
20004	50372	A	20120	2	1658	
20000	30373	I ^A	20121	l ⁴	1020	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Aminn acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20006	50374	A	20122	2	211	MGIYDFSYFPPGCCLKSRRKSS RGSQE*LALSPGFSGSFGSIQDL TQV*CIQDSTPATLTAVGVDKM
20007	50375	В	20123	86	586	
20008	50376	Α	20124	66	433	SSSRTEGARGKRQPMPSP/STEP RVCLTIEGQEVNCLLDTGAAFS VLLSCPGQLSSRSVTI*GVLGQP VTRYFPQPLSCDWGTLLFSNAF LIMPESPTPLLGRGILAKAGAIIH HAVLVTAAL
20009	50377	Λ	20125	1	459	MAVRYTDENVLRKGTREAGT MMRLRGTTECCADFAAWDVT HDALRATGGELPGAQVMLTTT ECGRHVDPCDRAVWLPRMWG YPLALPGEMRKLYTVRMAGRD ILAKAGAIIHLNIGEGTPVRCPL LLEGINPEVWKTEGQYRQAKNA RPVQVKL
20010	50378	A	20126	260	392	VEVVILPMPVPNLPSIPARITKG
20011	500.70	-	20127	1	1740	RMGTLLLRGLGTT*LYKSCSV
20011	50379	A	20127	1	858	MEWEDNLPLELGRTVAKLLSD
						HSQTPLGIQMFLLFSLSLRKSPL VCLSYLFNFRFTLESEVQHLSG ATILTA WPKIPFLGIERAKSPRS ENTRLATILEAGHRFILGTSVSK DHPVTFWPRPRDLQSDLKQIKI DLGKFSDMPDGYIDVLQELGQS FDLTWRDIMLLLNQTLTPNERS ATITA AREFGDLWYISQVVAAV AGLVSEAVKIIGGLTVWT/SHD VNGILTAKGDLWLSDNHLLKY QALLLEGPVLRLRTCATLNPAT FLPDNEEKIEHNCQQVIAQTYA
20013	50381	A	20129		6530	MWGSDRLAGAGGGGAVTVA FTNARDCFLHLPRILVAQLHLL QNQAIEVVWSIQPAFLSWVEG RHFSDQGENVAEINRQVGQKL GLSNGGQELHAVSLEQHLLDQI RIVFPKAIFPVWVDQQTYIFIQI VALIPAASYGRLETDTIKLLIQPK TRRAKENTFSKADAEYKKLHS YGRDQKGMMKELQTKQLQSN TVGITTESNENESEIPVDSSSVAS LWTMIGSIFSFQSEKKQETSWG LTEINAFKMQSKVVPL
20014	50382	В	20130	1231	2065	
20015	50383	Α	20131	68	372	
20016	50384	Α	20132	I	1461	

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
20017	50385	Α	20133	h	806	AVWCTHCCAPTPSGPVLPHSAA
						MSFLKSFPPPGPAEGLLRQQPD
						TEAVLNGKGLGTGTLYIAESRL
						SWLDGSGLGFSLEYPTISLHALS
						RDRSDCLGEHLYVMVNAKFEE
		1				ESKEPVADEEEEDSDDDVEPITE
		1				FRFVPSDKSAF*FPCSVEAMFTA
		1				MCECQALHPDPEDEDSDDYDG
1						EEYDVEAHEQGQGDIPTFYTYE
						EGLSHLTAEG\QATLERLEGML
						SQ\SVSS\QYNMAG\VRT\EDSIR
		1				DY\EDGDGRLDTTP\TVCLGQF\
						EDADV
20018	50386	Α	20134	225	420	RLLGDVCGRLRPRGHEEQRPG
						GPGARSHSRSGPRMGRDCAGA
		_				VPRVTPK*SACAAGGRGGPAT
20019	50387	Α	20135	1	687	
20020	50388	Α	20136	1	2979	MLRRKKQEDWAAKGSSHACG
		1				QIPEEREKGFAVGNVVANLGLD
		1				LGSLSARRFRVVSGASRRFFEV
		1				NRETGEMFVNDRLDREELCGT
1		1				LPSCTVTLELVVENPLELFSVEV
		1				VIQDINDNNPAFPTQEMKLEISE AVAPGTRFPLESAHDPDVGSNS
		ı				LQTYELSRNEYFALRVQTREDS
		ı				TKYAELVLERALDREREPSLQL
		1				VLTALDGGTPALSASLPIHIKVL
		1		1		DANDNAPVFNQSLYRARVLED
1	1	1				APSGTRVVQVLATD
20021	50389	A	20137	2	296	ALBOTRAT Q LEATE
20022	50390	A	20138	1187	1292	
20023	50391	A	20139	2	3250	LTSRWRPWPRPPTSASSAGWFC
		1				ASTGPWTAAPAKAPPSWASWT
		1				SRALRSSRPQTSRLWRR*PRSR
		1				AATPSSSGRGTCGIRPTSVFSTT
		1				RARSTTRPTSG**KTWTL*MTT
		ł				SQ/RLLHQSTDRLTAEIWKDVE
		1				GIVGLEQVSS\RATAHQVAAPV
		1				GVCSGQWDSS/HKESLSRLMAT
		1				LSNTNPSFVRCIVPNHEKRAGK
		1				LEPRLVLDQLRCNGVLEGIRICR
				1		QGFPNRILFQEFRQRYEILTPNA
		L				IPKGFMDGKQA
20024	50392	В	20140	1	1816	
20025	50393	Α	20141	500	866	QVCLYPGWQHSPGRQRVSG*A
1		1				HLHTAPLWICQ*SGDCDWHES*
1	1	1		1		GGGM*CVR\FEPPRTSSPPSATS
						GSLLK*KEKTGLSNSPCSTSTSS
1		1				GGRTPSTDRMGKTRRQYPSGA
		_				GNSEDKVGFPQVF
20026	50394	Α	20142	130	226	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20027	50395	Α	20143	846	1555	GRKTPSQGRRWSSPRVFLLPGG
						PKPCYTYPLVGEKLLFRVLPLFP
						HKPSASNLEKVSHCPECGKTFS
		1				RSSYLVRHORIHTGEKPSOVPV
			1			ECGKGF**ALPT/CTAH/HYGTH
					i	TGERPYQCGQCGKSFNQSSSLI
					i	VHORTHTGEKPYOCIVCGKRF
						NI\SSQFSAHRRIHTGESPYKCA
						VCGKIFNNSSHFSAHRKTHTGE
1	i				i	KPYRCSHCERGFTKNSALTRHO
				l		TVHMKAVLSSOEGRDAL
20028	50396	A	20144	93	764	AOERKALKSTPSHSSFSR/WLSR
20020	50370	l		["	1	IILKNGSSSSSSSSSSSSSLRE
		1				RERKSCENVNITRNRR/LTAETI
				!		ADTIDTSNGSVFLIWTER*EWN\
l l						WLPKPWHOYOLOARASLSEEIL
1		l				NNRWEQDPEAFRQDPEDQARS/
	1	1		1		OWLPRGGSAPV\KQRLLLHHDS
		1				VPDHAFLRTRAAGQDLPWETV
						RRPPDNPDLAPADFSLFPCLGK
l		l				LLAERRCFSLQRRVPWPPENQP
		l				PHRQ
20029	50397	Α	20145	1	433	
20030	50398	С	20146	312	443	
20031	50399	Α	20147	1	94	
20032	50400	A	20148	2	122	DLLCPQMG*GWKLTALSLQCS
		_				LQDGIERSRAKASQCCLSI
20033	50401	С	20149	25	328	
20034	50402	С	20150	157	309	
20035	50403	В	20151	33	2996	
20036	50404	С	20152	167	274	
20037	50405	Α	20153	3	130	AGAVQFQALGVPNKDTKSLEL
		_				HQKPKPR*GQDDNHRMSPVYV
20038	50406	A	20154	2	453	
20039	50407	Α	20155	1	1317	
20040	50408	Α	20156	1	1350	

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nuclcotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20041	50409	A	20157	970	2559	FPLAYSLIFPPCSRLSRELLEVV EPEVLQOSLDRCYSTPSSCLEQP DSCQPYGSSFYALEEKHYGFSL DVGEIEKKGKGKKRRGRSTK KRRRGRKGEGEDONPPCPRLS RELLAEKEPEVLQDSLDRWYST PSVYLGLTDPCOPCRSAFYVLE QQRVGLAVDMDEIEKYGEVEE DQDPSCPR*L*AITDA*FCVDI WRCQVQGKQECVQFHVFNEG* ITPTDIAVGFHCSRCLGFHFFLP LSFTHLL*VDHTSKAVWQLHGI LSKFMEN*AHSFHDHCSLCV RALTQSVL*PLHQCVTRPIR*AH FILSLSLPLPVFLFHSFLPGPGLS QHKGNNSLPH*WICPFSF*TVPY VSHE'LGLCGF*PFLAYSLLFFT CSRLSRELLDEKSPEVLQDSLD RCYSTFSGYLELPDLGQPYSSA VYSLEEQYLGLAUDRIKGN RCYSTFSGYLELPDLGQPYSSA VYSLEEQYLGLAUDRIKGN RCEEEDQQPCPCRRLSRELLEVV
20042	50410	А	20158	2790	5320	EPEVLQDSLDRCYSTPSSCLEOP DSCQPYGSSFYALEKHYGFSL DVGEIEKKGKGKKRRGGR LHLFCHKRQHGGISRALGSSKK PEMNILEISETLRPQLAEKKQOF RSLKEKCFLTQLAGFLANRQKK YKYEECKDLIKFMLRNERQFKE EKLAEQLKQAEELRGYKVVVH SOBRELNQLEKLREGRDASRS
20043	50411	Ā	20159	394	3251	LYEHLQALLTPDEPDKSQGQDL QEQLAEGCRLAQHLVQKLSPE MDEDEDEDVQVEEAEKVLESS APREVQKAEESKYPEDSLEECA ITCSNSHGPCDSNQPHKNIKITF EEDEVNSTLVVDRE GRRYCLFSEDEECKDLIKFMLR
						NERQFKEEKLAEQLKQAEELR QYKVLVHAQERELTQLREKLR EGRDASRISINEHLQALLTPDEP DKSQGODLQEQLAEGCRLTQH LVQKLSPENDNDDEGCVSQV VAEKVQKSSAPREMQKAEEKE VPEDSLEECAITCSNSHGPYDSN QPIKKTKITEEDKVDSTLIGSS SHYEWEDAVHIJPENESDDEEE EEKGPVSPRNLQESEEEEV!PQT PWHETLSHLSIL

SEQ ID	SEO ID NO.	Me	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X-Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540.217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
		1		sequence		
		<u> </u>				
20044	50412	A	20160	245	641	ILSVLIAVLCVVGKIPLKEPLCP
		l				AAGSAAEACVGQGMPVIQVPC
	ŀ	1				SQQRPSSMCWPRNACQSSRAL
						GGDESYVPKNRKSFTKHPVSSC
i						/PSPSLGWGRG*R/PGGPGRSPG
1		1				LALGFPSFSGPAGFGQGTSSPRF
20045	50413	Α	20161	7	194	RPLVESRGIPRSPAASFSTACPR
		ŀ				NTASIPSAPSWWETAWTQTSS*
						APPVA*RPS*PSPESPL
20046	50414	Α	20162	232	509	MGVLMHRRCTKAPAWAVATY
						EAPLHCQQLLGVVGVLAGDPS
						LLDLGGIHQQPQGLPITVLHQA
	i	1				EEADLVLLRAVTDAAALPVEQ
i	l	1	1			HRP*GAPGLLPPPDGGQ*SGDP
						AAAGGYLQGPRGLGPQPGHPP
						HPGAAGSAGEPRKWLPPRRGL
l						WCSACA*GPPSTGPGEORGPGD
1						SG*FISASTSASRATSACRSAFIT
						SQTEPPTWPSLARPQSSGLARPP
l						APGRTAAGRD**TLPPGK
20047	50415	A	20163	3	859	SLGGNKSRPTRRCCSGSRCRCR
20047	30413	n	20103	ľ	037	DKSAAVSGALWRGCRESPRAP
						PPAPQTIPRAWPSPTAVLTHPLL
1	ł					AGPSRWGSSCTGAAPKPPPGRG
1						PLRGSPALPAAPGCGGCPGWGP
į.		1				KPLGPWRYPPAAAGSPDHCPPS
ŀ						GGGSRPGAPQGGNRCSRSARRT
ŀ						APPSCGCSEVGSL*WSPRSGPRP
	1	1				PGWFGWAGACGGSGGSFAASA
						ALAWEGPEQSQEALQPQSPQRF
1		i				APAAAAAGAGPRLSSPRRRAW
						SSPG*/HGIPWPTHASAALPAAG
l						HRGSFSGILP*RAGKRSAMLST
						HKGSFSGILF*RAGKRSAMLST
20048	50416	В	20164	179	438	
20049	50417	Ā	20165	1	930	MESPWROWRLRKVARSGGGR
1200.5		1		ľ		LSNKRKLHLKKKKKGERGGG
					\	AEREKAAAAVAPGCKAGAGN
	i .					AKKFVQNGPGTKESSASQVPTG
						PSAAGLLEFARGPLOTLFAWVS
	İ					AAVSAEPRIFMIRECCCLIVPLE
	İ					VLSQRSTWPCEFLISDCCASNQ
	İ		1			QDSMGVGPSEPGAGYNLLVRH
1				1	1	FLSPSEKCSIRVGVARFSRVLPP
1	1	1			1	PLLGISAARAAGGAARQAAQL
1	1	1			1	REGSRCPRLTDIPHAPSTPPEQG
1	1	1	1		1	HSAEGAAKEEPKRRSARLSAKP
1					1	APAKVEAK/PKKAAAKDKSSD
1	1	1				KQVQTKGKRGAKGKQAEVAN
	I	_	L			QETKEHLPAV
20050	50418	Α	20166	199	419	

SEQ ID NO:	of peptide sequence	hod	SEQ ID NO: in USSN 09/540,217	location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, "-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
20051	50419	В	20167	969	1313	
20052	50420	С	20168	481	738	
20053	50421	В	20169	56	3476	
20054	50422	A	20170	1	2679	
20055	50423	Α	20171	1	1467	
20056	50424	Α	20172	208	379	NPCKKGVLIFQF*LKIHKRQFIC ADLEFVISE*CTRYPIVAFNWCK PSLLRRSTPVK
20057	50425	Α	20173	1	921	
20058	50426	Α	20174	197	355	
20059	50427	Α	20175	1	3180	
20060	50428	Α	20176	I	1309	
20061	50429	A	20177		2295	MFYNDVKKQQQMAALTKEKD QLSQSIVMYKSLFEASQQLLNE MKCQVEEARLKEAQLRNE MKQQVEHEALLKRKLS EQEELKKKPRSCTLPNYTKGS GDVLGKIAHLAQIEDDRAAMVI SWHLASDMDCVVTLTDAARR TVDETOGROQVLPLDSIYKKTL PDWKRSLPHFRNGKLYFKPIGD PVFARDLLTFPDNVEHCETVFG MLLGDTILLDNLDAANHYRKEV VKITHCPTLLTRDGDR
20062	50430	Α	20178	3	2550	
20063	50431	A	20179	256	3680	INGGLEGELFLHLHLKEHERHI. ATVYVPPILSCTIVRSVLLTSSQ TIINTHYGDREAQAALKLGRWS HPRTPNAVGAPGPPEGAGGGD AVTSQSALLTFSRTSFASGAHA GAHPVLLRNEEEKGAPALVAPI FSAEGPTCSLWWILIPASTAG KLPAAASTRPSQRGLTADGGG GGASYGTEEDGGGVGHTVVL FDRREKESELGDRPLQVGERSD YAGFRAYETVKDGVTLVLLQS VNOLLLTATERIDF
20064	50432	A	20180	8	267	RGEMPGERLKAEVFLPPSPLSPT QVVGPLHRVWS*IGNASSQRGE AQVRS*VSFSLRLEDSTPWIPGT RALRGCWLWRDFQTLQSG

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20065	50433	A	20181	1	3692	MNPIREMOVSGIALKGTMKGW
20000	00.00	1				TELPKSPVWTOGNKGRNYFTN
	1			l		LALSLLFEDDTKLNPYAGGDAI
	1			i		RVRISVGPFKGERFTVPGLASEC
		l				GKNSFLRFPSNSRRKOLCGRVH
	1	l				GSFLWFSMMSQSMGGDNLSSL
	l	l				DTNEAEIEPENMREKFFRSLAR
	ŀ					LLENKSNNTKIFSKAKYCOLIK
		1				EVKEAKAKAKKESVDYRRLAR
	1	1				FDVILVOGNEKLIEAVNGETDK
		1	}			IRYYLHSEDLFDILHNTHLSIGH
	1					GGRTRMEKELQAKYK
20066	50434	A	20182	24	131	PVHKRWS*NDECYRHCTV***Q
20000	30434	<u> </u> ^	20102	24	1.51	PGSEENNPALENR
20067	50435	С	20183	99	281	I GSELIVII AEEIVK
20068	50436	A	20184	1	4200	MVILKDEMKEEMNSEEGDELR
20008	30430	l^	20104	l'	4200	TCDFFFLRHLVAVKOLAHVKV
	i					DRFFPRRQSLAESRTAGIRLQTN
				ŀ		VOKMVSSFTTSDRKOTSPSSYS
		l				VSFIPEFHFLGPPTHCPQTAVSQ
	Ì			į.		CDLLFOLHSPAEALFPARTLPG
				ŀ		GPRSPHLRVPAAPAPLOHDPRH
	l	1		l		TGPPLPPTANRGATPPLPLGPGA
	l			İ		LERSGRLGELNSASSFRLRRDN
				ĺ		POSPAARPRGSHGLAGIEGERT
				1		LINYYCQERYFHHVLLVASEGI
						KRYGSDPVFRFY
20069	50437	Α	20185	1	1464	RETUSENTENT
20070	50437	A	20186	335	855	RIASMPRLPPRTQGRGSARLPSR
20070	30430	^	20100	122	055	ARPGLHWHHRHTMLPPKPRRW
	I			1		R/RALGPAEAGMLEKLEFEDEG
1	1	1		l		ECAPPAAGPALPRPGRPRTGTR
1				l		GDPAPHLRRCPTASCVLRKPRG
				1		RGGNRGGDAGAGELGLRGPCD
	1	1		l		LPSONFLCFLVDVLKNGLLALO
				l		LFSSNPTASCAESLPMLRTPVI
L	l	1	L		L	LESSING LASCAESTAMEK I PAT

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	coden for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20071	50439	A	20187	2	1160	SARPAASPPAGERASQLMLIAV
20071	30433	<u>۱</u>	20107	ľ	1100	LLLPLRRRWRRALGPAEAGML
						EKLEFEDEAVEDSESGVYMRF
						MRSHKCYDIVPTSSKLVVFDTT
			ļ	l		LQVKKAFFALVANGVRAAPLW
						ESKKQSFVGMLTITDFINILHR
				l		YYKSPMVOI/YMELEDHKNLET
1						\WRELYLQ\ETFKPLVNISP\D\AS
						LFGWLYTSLIKNKIHRLPVIDPIS
						GNALYILTHKRILKFLQLFMSD
						MPKPAF\MKONLDELGIGTYHN
						IAFIHPDTPIIKALNIFV/EKDRIS
				1		ALP/VLWDESGKSW*IFNSPNLN
1		1				VN*ILACLEENIPNNLR*STVT\O
1		l				A\LQHRSQYFEGVVKCQLSWKF
						LETHRWTRIVRAEGPSGLVVV\
						NEADSIVGIISLSDIL\QALIL\TP
	İ					AGAKQKETETE
20072	50440	A	20188	58	205	AGARQRETETE
20072	50441	Ā	20189	347	1581	NPSPC/WAVFFQKDAITSKIQTF
20075	30441	ľ	20107	547	1501	LSMLHLYN**/SSPSKENTRTVE
						KLYKCSVDIRKIRRFKKDGVLL
						RR*KPYVERNCRIFYQELGAR*
						D\AVASI\LERCPEAIV*SPTAVN
ŀ					İ	TORKLWOLVCKNEEELIKLIEO
						FPESFFTIKDQENQKLNVQFFQ
						DVGTKKCGH\CRLLTAAPNCFS\
		l				NPVEKNKOMV\EFFOESYLD\L
		l				GGSEANMKSFGLLKLFKPKPFY
		l				FV*ISPTAIKETLEFLOEPRFPPA
ł		l				LKFLQLPIPNSKGFLFQLCPKKY
		ļ				TE*YFLL*KCLLNAQIFMDP/VS
		1				N*VLKWPCPFILFLFPVLEERM
		1	1			QGLLREGISIAQIR\ETPMVLELT
		l				POIVOYRIRKLNSSGYRIKDGHL
		1				ANLNGSKKEFEANFGKIOAKK
		1				ALONLLIRSLNYYDELTVGEC
		1		1		GNRKGRGTNVNTTL
20074	50442	Α	20190	3	455	
20075	50443	С	20191	72	218	
20076	50444	Α	20192	3	452	LGILLVDDFVNVLSSLAVYAED
1		1		I		SEPESDGEAGIEAVGSAAEEKG
				l		GLVSDAYGEDDFSRLGGDEDG
1			ĺ	l		YEEEEDENSRQSEDDDSETEKP
1						EADDPKE\NSAQ*QRHPGLSKL
1				l		MAQLVGLRGQKNHILNMIRDV
						TQQPQLSLAAHTPHTPFHLQ
20077	50445	Α	20193	1	334	
20078	50446	Α	20194	1	687	

SEO ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20079	50447	A	20195	1	1280	L RPGCGNKMAGKKNVLSSLAAY
20077	30447	ľ	20175	ľ	11280	A*ISEPESDGEAGIEAVGSAAD
						EKGGLVSDAYGEDDFSRLGGD
		1				
}		1				EDGYEEEEDENSRQSEDDDSET
ł						EKPEADDPKDNTEAEKRDPQEL
						VASFSERVRNMSPDEIKIPPEPP
						G\RCSNHLQDKIQKLYERKIKE
l						GMDMNYIIQRKK\EFRNPSIYRE
		1				/RLIQFC\AIDELGTNYPKDMFD
						PHGWSEDSYYEALAKAQKIEM
						GQIGKRPKKERNQKFEFCDGAP
	1					KKGT/TRTNATSTTTTTCQAQL
		1				FADCFRRGKRQVGIRAIPSATKI
		1				KRTPPPKPPPNTLTTTATLPS/V
1		1	1			VVTVTHPSASGSKDPPVISCCG
		1		İ		APIVKERPKQVTLRGPPLGLER
		1				DRAAPVTHCPVGGAHFVYFRT
1		1				GTYSPRCHLRGASVWHSRWKD
						RQHGSQALWTGSVHAPPGVCR
		1				LLKVPYSYLLASQKK
20080	50448	Α	20196	1	542	MAYSAPEKSCTEGHESPH/HHT
						AGHSGWHGG*ALRQRGHSCPK
		1				EGTRGHPQTLAP/HHQCPQHAA
					İ	GLPR/HNQLLHD/WFRHHHHRH
						WHHHHHHHQ*FPECQPSTSHQ
	1					ANPHHRPDLHDRQAPDSGYEG
1						VSPKRVAEANFSLGSAPOAAO
1	1					GRSHGOSPGVHGFFSHGSPAAS
						SDIMKRLPPPGLF
20081	50449	Α	20197	45	171	RKTRERIGHDVICNLL*C**SS/C
				l		GCGLS/CICS*IRHSKSSRKA
20082	50450	A	20198	277	467	GLGPHDYLYSILSIERSCCC*CC
1						CCCCRRRRCCCCC/CV*GCSRFL
1						CSIAESTPSGALRRLRGGR
20083	50451	Α	20199	1	1080	-
20084	50452	Α	20200	34	119	
20085	50453	Α	20201	1798	1894	
20086	50454	A	20202	363	778	GLGPHDYLYSILSIERSCCC*CC
		1				CCCCRRRCCCCC/CV*GCSRFL
		1		I		CSIAESTPSGALRRLRGGRSGGS
		1				GGCCSPGGCREGGRGNTKPAT
		l				RCEVICGGGSGGGGARPAAPPG
			1			GPDASRVCWFSLNTSIVFFSCPF
20087	50455	Α	20203	1	360	
20088	50456	В	20204	1	3681	
20089	50457	A	20205	1	293	
20090	50458	В	20206	38	282	

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	i	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequenec	İ	
20091	50459	Α	20207	1	1124	VDTVKRLLIKKLPPVLAIQLKRE
		1				DYDWERECAIKFNDYFEFPREL
		1	1			DMEPYTVAGVAKLEGDNVNPE
		l				SQLIQQSEQSESETAGSTKYRLV
		l				GVLVHSGQASGGHYYSYIIQRN
		1				GGDGERNRWYKFDDGDVTEC
		l				KMDDDEEMKNQCFGGEYMGE
		l				VF\DHMMKRMSYRRQKRWWN
		l				AYILFYERMDTIDQDDELIRYIS
		l				ELAITTRPHQIIMPSAIERSVRKQ
		1				NVQFMHNRMQYSMEYFQFMK
		1				KLLTCNGVYLNPPPGVAEKTQL
						LKLSVPATFMLVSLDEGPGPPIK
		1				YQYAELGKLYSVVSQLIRCCNV
						SSRMQSSINDAETAFNKIQHRF
						MLKILNKQGIEETYIKITRAIYD
20002	50450		20220		1052	KPTANIILNGQMLEALPLRNRT
20092	50460	A	20208	1	1053 1785	MTATTRGSPVGGNDNQGQAPD
20093	30401	1^	20209	l'	/ / 03	GOSOPPLOONOTSSPDSSNENS
		1		1		PATPPDEQGQGDAPPQLEDEEP
		1				AFPHTDLAKLDDMINRPRWVV
		1		l		PVLPKGELEVLLEAAIDLSKKG
		1				LDVKSEACORFFRDGLTISFTKI
		l				LTDEAVSGWKFEIHVSLAFDFK
		l				GSDLHSDACEWEERCIINNTHR
		l				LVELWCGPSCPQDWF\PLLELL
		1				AMALNPHCKFHIYNGTRPCESV
		l				SSSVQLPEDELFARSPDPRSPKG
						WLVDLLNKFGTLN
20094	50462	Α	20210	1201	9141	ADKIAKICPVSSMTATTRGSPV
		l				GGNDNQGQAPDGQSQPPLQQN
		l				QTSSPDSSNENSPATPPDEQGQ
						GDAPPQLEDEEPAFPHTDLAKL
						DDMINRPRWVVPVLPKGELEV
						KLEANIDLSKKGLDVKSEACQR
						FFRDGLTISFTKILTDEAVSGWK
						FEIHRCLVELCVAKLSQDWFPL
	İ					LELLAMALNPHCKFHIYNGTRP
						CESVSSS VQLPEDELFARSPDPR
		l				SPKGWLVDLLNKFGTLNGFQIL
20005	60462	<u> </u>	20211		710	HDRFINGSALNVQ
20095	50463	Α	20211	2	710	

TAALAPKPFCAAPRPQI AGATGGSCADFDSGVU SSGLWGPOPPLPVKN AFKDVAVNFTQEEWAI KNLYREVMLETFWNLI WKDQNIEY EYQNPRRN EEKVNEIKEDSHCCETT DRLNPKKKASPEVKS EVGLONSSNMNIRGD CECQEYOPKPWKSQOP YHPSLRTQERDHTGKK ECGNIIYHSSIQRHMV GPYKCKFCGKAFHCLS RTHTGEKPYECK AFHSPRSCHRHERSHM QCKECGKAFMCPRYV HSRKLYECKQGKAI QTHIRMHSGERPYECK FYSAKSPQRHEKTHSGI KCQCKAFTRSSFSFRVH EKPYECKQCGKAFRASH HGRTHTGEKPYECK SASQLRIHRRHTGEKP	NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	location of first	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible aucleotide insertion)
CGKAERVVONEREHER	20096	50464	A	20212	1	1703	RPLDVGGPAAGTPGVLSRPCPS TAALAPKPFCAAPRPQPDAPAC AGATGGSCADFDSGVDFVRRR SSGLWGPQPPLFPVKNYTEDPV SSGLWGPQPPLFPVKNYTEDPV AKDVAVNFTOEEWALLDISQ KNLYREVMLETFWNLTSIGKK WKDONIEYEYONPRNFRSVT DRLNFOKKKASPEVKSCDSFVC EVGLGNSSSNMNIRGDTGHKA CECQEYGPKPWKSQQPKKAFR YHFSLRTQEKDHTGKKPYACK ECGKNIJYHSVEGOGFKKPYACK ETHTGEKPYECKQCGKSFSYSA THENHERTHIGEKPYECKQCGKSFSYSA THENHERTHIGEKPYECKQCGKASSLTSF GYHKSKLYECKQCGKALSSLTSF GYHKSKLYECKQCGKALSSLTSF GYHKSKLYECKQCGKALSSLTSF GYHKSKLYECKQCGKALSSLTSF GYHKSKLYECKQCGKALSSLTSF GYHKSKLYECKQCGKALSSLTSF GYHKSKLYECKQCGKALSSLTSF GYHKSKLYECKQCGKALSSLTSF CKQCGKAFTKSGSFRYHETGKEPYECKCKG EKPYECKQCGKAFRSAPNLQL HGRTHTGEKPYCCKCGCKAFR KQCGKAFTRSGSFRYHERTHC EKPYECKQCGKAFRSAPNLQL HGRTHTGEKPYCCKCGCKAFR SASQLRHRRHITGEKPYECK
20097 50465 A 20213 3 2413	20097	50465	Δ.	20213	3	2413	CGKAFRYVQNFRFHERTQTHK

2559

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20098	50466	Α	20214	1	2124	MGKNTPMIQLSPPGPFHNSEYR
				i		FPVLSVSAFLLYTCEMFODPVA
						FEDVAVIFTOEEWALLDISORK
						LYREVMLETFRNLTSLGKRWK
				l		DONIEYEHONPRRNFRSLIEEK
						VNEIKDDSHCGETFTPVPDDRL
						NFQEKKASPEVKSČESFVCGEV
						GLGNSSFNMNIRGDIGHKAYEY
						QEYGPKPCKCQQPKKAFRYRPS
1						FRTQERDHTGEKPNACKVCGK
						TFISHSSVRRHMVMHSGDGPY
						KCKFCGKAFHCLRLYLIHERIH
						TGEKPCECKQCGKSFSYSATHR
						IHKRTHTGEKPYEYQECGKAFH
						SPRSYRRHERIHMGEKAYQCKE
						CGKAFTCPRYVRIHERTHSRKN
1						LYECKQCGKALSSLTSFQTHVR
1						LHSGERPYECKICGKDFCSVNS
						FQRHEKIHSGEKPYKCKQCGK
						ALPHSSSLRYHVRTHTGEKPYE
						CKQCGKATHNGEKPYACKECG
				ļ		KPFGSAQNLRIHERTQTHIMHS
1				(ľ	VERPYKCKICGRGFYSAKSFQI
1				1		HEKSYTGEKPYECKQCGKAFV
			1			SFTSFRYHERTHTGENPYECKQ
				1		FGKAFRSVKNLRFHKRTHTGE
			1			K/PL*IHEKTHTGRKHYECKQC
				İ		GKAFTSSSSFQYHERTH/S/GEK
						PYQCKQCAKAFISSTSFQYHER
						THMGEKPYECMPSGKAFISS\SS
						LQYHERTHTGEKPYEYKQCGK
		L				AFRSASHLQMHGRTHTGEKPY
20099	50467	A	20215	23	265	
20100	50468	A	20216	40	470	
20101	50469	Α	20217	235	392	

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide sequence	hod	in USSN 09/540,217	location of first codon for peptide	endon for last amino acid of peptide sequence	*=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
	sequence		05/540,217	sequence	or pepude sequence	detention, v-possible nucleotide insertion)
1		1				
20102	50470	Α	20218	7	1439	EGADKMATSVGHRCLGLLHGV
						APWRSSLHPCEMTALSQSLQPL
						RKLPFRAFRTDARKIHTAPART
		l	1			MFLLRPLPILLVTGGGYAGYRQ
			i			YEKYRERELEKLGLEIPPKLAW
		1]			SLGSVALYKSVPTRLL\SRAWG
						RLNQVGAAHTGLRRPRFTSL\YI
		1				WTFGVNMKEARVEDLHHYRN
		l				LSEFFRRKLKPQARPVCGLHS/V
						GEA*PFPPAGNRTFSCLPSTAPL
						VSSVSGRGRMTRGGGGCLLGG
						GDPALPGSKPLLPFQISPSDGRIL
1		l				NFGQVKNCEVEQVKGVTYSLE
		l				SFLGPRMCTEDLPFPPAASCDSF
		1				KNQLVTREGNELYHCVIYLAPG
		1				DYHCFHSPTDWTVSHRRHFPGS
1		1				LMSVNPGMARWIKELFCHNER
1		1				VVLTGDWKHGFFSLTAVGAT\
1		1				NWGSTRIYFDRDRNTNNPRHSK
1		1				GSYNDFSFVTHTNREGVPMRK
1		1				GEHLGEFNLGSTIVLIFEAPKDF
		L.				NFQLKTGQKIRFGEALGSL
20103	50471	Α	20219	170	1144	ARTRRLAPSPGCRRGPAVKKM
		ł				RHEELLTKTFQGPAVVCGTPTS
		1				HVYMFKNGSGDSGDSSEEESH
1	i	1				RVVLRPRVKERHKSGVHQPPQ
	İ	1				AGAGDVVLLQRELAQEDSLNK
		1				LALQYGCKHSE*LTMA/NVADI KKVNNFIREODLYALKSVKIPV
		1				RNHGILMETHKELKPLLSPSSET
		l				TVTVELPEADRAGAGTGAOAG
		l				QLMGFFKGIDQDIERAVQSEIFL
1		l				HESYCMDTSHOPLLPAPPKTPM
		l				DGADCGIQWWNAVFIMLLIGIV
1		l				LPVFYLVYFKIQASGETPNSLNT
1		l				TVIPNGSMAMGTVPGOAPRLA
1		l				VAVPAVTSADSQFSQTTQAGS
20104	50472	A	20220	1	626	RYSSTLTRPWTOTPRTRASPHS\
20104	30472	ľ	LOLLO	l '	020	PVAGALTARPSPPRPTKPSRAG
1						VHASRRPPQDLGPIGKGSAKTK
		l				GPRHORKHHESITPPSRSPTKEA
1		1				PPGLNDDAQIPASQESVAPLWIP
						VTAP*AHRVLSSCEFGAAFESA
		1				GEEEGEGEVSASQAAVQA\GTQ
		1	1			TRR*GATSAPCGPVPEGASVPA
		1	1			L*AAGAAGRAEAERPPCVPAO
						AVGLSGQPLS
		L			L	A TOLOGOTES

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nuelcotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
20105	50473	Α	20221	2492	4619	WHSWROOGWGAHLGSSATGP
						GC*QGRPTCVMRPAGT/TRPGE
				l		APIGSGTGAVEMPAREPGDEKP
	1	l				PAPFP*QRHFVPRAHLLFGTAL
						RSLPELMRRAVRNPRHHLSAEE
						SLLFSLPGSPWKGWSSWNGQA
l						PPLAPPAQGPLLPVPLSAGPGV
	1					AGERTVPSSPRWWRPHLFLAPT
						APSPPPCPTVSAPGHLLGVAQK
				l		PDCHPPASQRPRRHPLPFLPGEA
	ļ	1	1			FAE/SAANS*ISSISASFTFS*SSS
1						WSLD\STKSSLPPLHLPTLTSRV
						PGKFSALLSQFSASFSSHGLPSE
		1				SVAIGTCST/PGERAHSRQTCGP
						GSSAQS*GQEEGQCPQCRDSAG
						TCGRPRCSRHPAGHAGSEPRPL
ŀ						QRR\$LHCSHTG*GAGIGHKART
						CGRKAPPRCPSETGHHSGVGY*
		1				PWRQSQQPAARGRARCGRPCP
			1	i		GACPAMAPQTQSEEGRRAPR/T
						NPAVPSEPARP/STAGPRAGASV
						PPSPGPRGPAGPGAPS\AGRRRR
						APGATACSGGAVESG*PSL/GSA
		l				LSAQVAPEAARAPA*GPGQAA
						GAREEGPAWPCRSPP\GPGPSQC
						AALPQK/GSALRSGGRRTLGPL
				İ		LSHPSFKILLAGSGGVLDNSTSS
					l	ERSRATRSSICRPVVSESWTNN
			ŀ		l	NGGDTGG\SSCDFYSPGPADGL
						SQGHSSDHTNLLLVLSSQKRHF
Î		1			1	PA*ALVQPHPAPSPTGTEPWPP
		1				AGPRTVPRPPSASSVAPSCWWV
20106	50474	Α	20222	103	538	PQLSLPLLSIRDRRRPSKCANLT
				1		LTLTVAARHGLQSLGKVGISRR
1	1			1		MPPPANLPSLKAENKGNDPNV
	1				1	NIVPKDGTGWASKQEQHEEEK
1					1	TPEVPPAQPKPGVAAPPEVAPA
1						PKSWASNKQGGQGDGIQVK*Q
					_	FQQEFPSLQAAGDQK
20107	50475	С	20223	I	569	
20108	50476	Α	20224	1	1095	

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nuclcotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	eodon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
		_				
20109	50477	A	20225	1	1970	MWKGFTILDSFKNISDSWEDVF
						ISTLTGVWKKLIVTLMDDLEEF
						KTSVEEITLTQRKLFFVMESPV
					i	GPISPPQPPSVSAWNKPLTSFGS
						APSSEGAKNGQESGLEIGTDTIQ
						FGAPASNGNENEVVPVLSEKSA
1		l				DKIPEPKEQRQKQPRAGPIKAQ
						KLPDLSPVDNK\EHKPGPIGKER
1						SLKNRKVKDAQQVEPEGQEKP
						SPATVRSTDPVTTKETKAVSEM
						STEIGTMISVSSAEYGTNAKESV
		i				TDYTTPSSSLPNTVATNNTKME
						DTLVNNMESARKAWENSPNVR
						EKGSPVTSTAPPIATGVSSSASG
						PSTANYNSFSSASMPQIPVASVT
						PTASLSGAGTYTTSSLSTKSTTT
						SDPPNICKVKPQQLQTSSLPSAS
					ì	HFSQLSCMPSLIAQQQQNPQVY
		1			i	VSQSAA/ATLTTACLS*WSTAQI
						PAFYMDTSHLFNTQHARLAPPS
1		1				LAQQQGFQPGLS\RSQPAFMQS
1		1				SLSOPSVVLSGTAIHNFPTVOH
						QELAKAQSGLAFQQTSNTQPIPI
						LYEHOLGOASGLGGSQLIDTHL
						LOVTVPLPASOLSLPNFGSTGO
		ļ.				
1						PLIALPQTLQPPLQHTTPQAQA
		ŀ				QSLSRPAQVSQPFRGLIPAGTQ
		l				HSMIATTGKMSEMELKAFGSGI
		ŀ			Î	DIKPGTPPIAGRSTTPTSSP\SGL
		-				LLQVRTASPAK
20110	50478	A	20226	260	8485	VSTEMSEKSGQSTKAKDGKKY
		1			ŀ	ATLS\LFNTSKGKSLETQKTTVA
		ŀ				ARHGLQSLGKVGISR\RMPPPC*
		ŀ		İ		PPKFLKPE*QRANDPNVNIVPK
		I				DGTGWASKQEQHEEEK\TPEVP
		1				PA\QPKPGVAAPPEVAPAPKSW
		1				ASNKQGGQGDGIQVNSQFQQE
		1				FPSLQAAVDQEKK\EKETNDDN
		1				YGP*PSLRPPNVACWRDGGKA
		1		1		AGSPSSSDQDEKLPGQDESTAG
				I		TSEQNDILKVVEKRIACGPPQA
		1				KLNGQQAALASQYR
20111	50479	Α	20227	330	485	ROGDRVSLCCLGRS*TPGLK*F
1						SHLDLLNCWDYRCETVHLAEI
		1				AOVSEKOI
20112	50480	c	20228	1189	1413	, , , , , , , , , , , , , , , , , , , ,
20112	50480	С	20228	1189	1413	AQVSEKQI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20113	50481	A	20229		407	MPFSLADCDSQHCILFAVVDL GTAKATSCMSDTFDFYSSSOR ANLKEGGKSPPAGPGKGPRGA QKRKYSGPWNRKESCKKHEGV KGAEGRGGTVASVRES/REPRF KMAAFSMHPC*RLSRHRGHLA ORCFCFCR
20114	50482	A	20230	-	408	HMDLAQPSQPVDELELSVLERQ PEENTPLINGADEVPSLDEEVPP AEANKESPWSSCNKNVVGRCK LWMIITSIFLGVITVIIIGLCLAA VTY VDEDENELELSSNKTFFIM LKIPBECVAEELPHLLTERL**S L**HLGKWR**SST/GLHLPTTF LLQELQGLSLLASAGGTSSSKE GKTSSAPLRGVPSSGCRSSTESS SSSTGCEGWARSM
20115	50483	С	20231	144	383	
20116	50484	A	20232		530	AKDSESRRMLRGYNPOQMSEG HIRQKSEFVNRTASESNVYLNSF HYPDHSYKDQAFDTLSLDSSDS METSISACSPDNISSASTSNIARI EEMERLLKQAHAEKTRILESRE REMEAKKRALEEEKRREILEK RLQEETSQRQKLIEKEVKIRERQ RAQARPLTRYLPYRKEDFDL
20117	50485	В	20233	10	543	
20118	50486	Α	20234	370	556	
20119	50487	A	20235	3	3160	TELQQLGOKTADGSPGLKRALI FALNFHSSPPGKDMAAVQRTL MALGSVAVTKDDGCYRGEPS WFHRKAQQNRRGFSEQLRQG ONVIGLQMGSNKGASQAGMTG LSDPTPWTAHLGMYVQGNAKF VSPVRRIVYHEYYNSQTFDVDI ALLQLSIAWPETLKQLLGPICIPP TGGRVRSGEKCWYTGWGRRH EADNKGSLVLQQAEVELIDQTL CVSTYGIITSRMLCAGIMSGKR DACKKRKLGTERPGTQAAP
20120	50488	A	20236	231	873	IKERALGSVOPGFRASGVQVA DEVCRIHYDMKVRIKCSITPE DQDKERSAVIFICLSADKKCIIV DEGKELLVGDVGWNP*TDPFR HFVGMLP*KKIVEYAFVMDGK LLETKGFQKRKSLMFFFVWAP ELAPLKK*K*YCKLQGMK*KSKMFFVWAP ELAPLKK*K*YCKLQGMC CIAEKLIGGSLIVAFEGCPCVDH HSVPQIEKLPMFNCYPLAI

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence		Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20121	50489	A	20237	915	1255	GHGQKPAGKKKKILAVRSGSEP AGGFQGY/RGGHGTAS/GSPGD DDSPGALWEQSPGPL*AWPGA VSEEPMVCAEPVQEQSGPQLPP PRHSRSPSGDSGQPGVPAERRRI MGMADA
20122	50490	A	20238	3	227	LLMDTF/FQIVIYL/GETIAQWR KAGYQDMPEYENFKHLLQAPL DDAQEILQARFPMPVKLRIQPG NATVSDCVQNV
20123	50491	А	20239	I	642	IRDTIARNWANNOSOVEHIEQ AFOQEAA AUMARLGIVEPE SKEGPDVLRWLDRQLIRLCQKF GQYTKEDPTSFRLSDSFSLYPOS MFHLRRSPFLQVFNNSPDESSY YRHHFARQDLTQSLIMIOPILVS YSFHOPPEPVILDSSRFPMPRYI NTEHGGSQARFLLSKVNPSQTH NNLYAWQGETGAPILTDDVSL QVFMDHLKKLAVSSAC
20124	50492	В	20240	20	277	
20125	50493	Α	20241	1	3030	

2565

SEQ ID NO:	SEQ ID NO: of peptide sequence	hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino neid sequence (X-Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20126	50494	A	20242	1		MAEVKVKVQPPDADPVEIENRI IELCHQPPHGITDQVIQNEMPHI EAQQRAVAINRLLSMGQLDLL RSNTGLLYRIKDSQNAGKMKG SDNQEKLYVQIEDAGNIGIWS SDIRYKSNLPLTEINKILKNLES SDNQEKLYVQIEDAGNIGIWS SDIRYKSNLPLTEINKILKNLES KLIIKAVKSVALGIPAGGSVCP KCGASNHLSARFCGSCGICVKS LVKLSLDRSLALAAEPPFFSES LINFLPRSDVGTKRDIGTQTVGI FYPSGKLLAKKEQELASQKQR QEKMSDHKPLLTAISPGRENIG ENLQVIGLVKNFLSNIPQAFAT QAKMGKWDPRQRGAQSPLIFL VVDTCLEEDDLQALKESLQM SLSLLPPDALVGLITTGRMVQV HELSCEGISKSYVFRGTKDLTA KQIQDMLGITKPAMPMQQARP AQPQEHPFASSRFLQPWHKID MNLTDLLGELQRDPWPVTQGK RPLRSTGVALSIAVGLLEGTP NTGARIMLFTGGPPTOGFOMV VGDELKIPIRSWHIDIEKDNARF MKKATKHYEMLANRTAANGH CIDIYACALDWGDSLNTSKCTRU CIDIYACALDWGDSLNTSKCTRU QRIFTKDFNGDFRMARGATLDV CRIVENDERSCREAFNICHTSCRATP
						AHSSWRALNTGLRSFDFIPGTV REPVKILGRRLTSDLQIRNSPLE AAVQGGVSKTVSTVSLAHAMR AHPHLLMEDLRILVIDLDPOSS
20127	50495	В	20243	453	3318	MULUINEDEKIE VIDEDI QSS
20127	50495	A	20243	2	1367	

2566

SEQ ID	SEQ ID NO:		SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
20129	50497	Α	20245	1	1459	MLEGKYGPPPGSFQTRRTALAR
						SHTNTSPSTSPAANRLNALGIGE
						RDASPSWLGETQDQVKRQPGL
						SGSRKIPRCAMTYGSLGQQAA
		1				QAAGVHAPNVFVASLLCQFLQ
1		1				FVYRNSMGWTGGADFSYSCQE
	1					GETKELWSSGHHLKACRAVAF
	1					SEDGQSEYWGRQPAMWWKGA
						VSSTMTLGTFSPELITVSKDKAI
		1				HVLDVEQGQLERRVSKAHGAP
	1	1				INSLLLVDENVLATGDDTGGIC
		1				LWDQRKEGPLMDMRQHEEYIA
						DMALDPAKKLLLTA\TYCSTLY
						SGDGCLGIFNIKRRRFELLSEPQ
					1	SGDLTSVTLMKVQLVMWGKK
ŀ						VACGSSEGTIYLFNWNGFGATS
ŀ						DRFALRAESIDCMVPVTESLLC
l						TGSTDGVIRAVNILPNRVVGSV
		1	1			GQHIGEPVEELALSHCGRFLAS
		1				SGHDQRLKFWDMAQLASCGG
	l	1				G*LPSAQKKGRTTAGSEQQDLE
	1					HR*LLRRTEARGRSLHGSQKKR
	1	1				RRLGMTVTEGMN
20130	50498	A	20246	221	847	RHIFSFFSGHVLAVSLGKFIFEST
l		1				LFPSERAARRRRRPVQQWPRFK
ĺ		1				ARDLRGKKKEELLKQLD\DLKV
1		1				EAV/SQLRVAKVTGR\AASKLS
		ŀ		ŀ		KIR\VVRKSIARVLTVI\NQTQKE
		İ		l		NLRKFYKGKKYKPL\DLR\P*GR
l		i i	1			HRAMRPPASNQARRENLEGPK
						EAGSGKGAAFTRCGK*RGSRA
ļ	ŀ					LRGRLCQ*KHKENLKTKKQQR
l						KERLYPLRKYAVKA
20131	50499	Α	20247	1	415	FFFFFECG*SFTNSFSVTIHRRIH
1						NGEKSYECSDCGKSFNVLSSVK
						KHMRTHTGKKPYECNYCGKSF
		1				TSNSYLSVHTRMHN/TANVNSI
		1				TVGKAFIDLSCLR*HEQTLTRC
	1	1				MNHLLLCNKLPPKILWLQTKTL
l		1	1			VISKFL

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide		Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
1				sequence		
20132	50500	A	20248	196	1768	RRSVLLPGCPVAVGVTGWRLSS
10100		ļ' .				CPOLPLCLPCSOPLSEKDTORA
						ESWLMSS*KAG/YKGLVTFEDV
				1		AVEFTOEEWALLDPAORTLYR
		l	ŀ			DVMLENCRNLASLGNOVDKPR
		l				LISQLEQEDKVMTEERGILSGTC
		l				PDVENPFKAKGLTPKLHVFRKE
						OSRNMKMERNHLGATLNECN
						OCFKVFSTKSSLTRHRKYSILGE
				ŀ		RPYGCSECGKSYSSRSYLAVHK
						RIHNGVKPYECNNCGKTFSSRS
						YLTVHKRIHNGEKPYDCSYCG
1				į		KTFSNS*YLRPHLRIHTGEKPYK
		ĺ				CNQCFREFRNQSIFTRHKRVHT
1		l				GEGHYVCNQCGKAFGTRSSLSS
		l		1		HYSIHTGEYPYECHDCGRTFRR
				ŀ		RSNLTQHIRTHTGEKPYTCNEC
						GKSFTNSFCLTIHRRIHNGEKSY
ŀ				ł		ECSDCGKSFNVLSSVKKHMRT
						HTGKKPYECNYCGKSFTIGQGD
				l		GFEIVLPPPQLQQLIKAFFLGNT
				l		HCLSDRLSVQCIHYSIRYLHLNI
1			1	l		HYLHYSIHYLHYSICYLHYSIM
						DPPQQSPHPLQHPLQNPLQ
20133	50501	A	20249	2	408	
20134	50502	A	20250	1	280	
20135	50503	A	20251	2	469	RGIREGEEFDVDLAGMEVAVG
		i		İ		GWGRGLWLHRHQAGIRGQSLG
				1		WRCRPWVGAGGVQAASERPD
				i		LAGSIMGPEVGALRRASPVIVIQ
1				l		SQAGAFLSSNTTCQQFRDPGFR
						GRYPASPHTLSLPPETAHL*LLL
						CLPAAGVLPHTWPLLDRQGWH
						RGHAR

SEQ ID	ISEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
					L	
20136	50504	Α	20252	1	1762	FRMAAPLVLVLVVAVTVRAAL
		1				FRSSLAEFISERVEVVSPLSSWK
		1				RVVEGLSLLDLGVSPYSGAVFH
1		1			1	ETPLIIYLFHFLIDYAELVFMITD
		1	i .			ALTAIALYFAIQDFNKVVFKKQ
						KLLLELDQYAPDVAELIRTPME
l		1				MRYIPLKAALFYLLNPYTILSCV
		1				AKSTCAINNTLIAFFILTTIKGKA
ı		ı				LKGEYKGSAFLSAIFLALATYO
	l	1				SLYPLTLFVPGLLYLLOROYIPV
	l	1				KMKSKAFWIFSWEYAMMYVG
		1			İ	SLVVIICLSFFLLSSWDFIPAVYG
	1	1				FILSVPDLTPNIG\LFWYFFAEM
		1		1		FEHFSLFFVCVFQINVFFYTIPLA
		1		l		IKLKEHPIFFMFIOIAVIAIFKSYP
		1				TVGDVALYMAFFPVWNHLYRF
		1		l		LRNIFVLTCIIIVCSLLFPVLWHL
		ı				WIYAGSANSNFF*GITLTFNVG
		1				
		1		ł	ł	QLPHELFIMVPEGGGPGALMA
		1				AIERNVDRAVPGGSAERDPIER
		l			ŀ	STLHILLISDYFYAFLRREYYLT
		l		l		HGLYLTPQGIAPEAMLVLQSRP
		ı				GWHRASWTLRGLVGPEAGPKL
		1				SSPELPAGECLGRRGSSPRVTSS
		1				LVPKRDPWLTDSKAYGEELGA
		L_				PQLGPPPCGSAHQGAPSQTGRR
20137	50505	В	20253	102	406	
20138	50506	В	20254	200	408	
20139	50507	В	20255	347	458	
20140	50508	Α	20256	2	430	
20141	50509	Α	20257	3	567	
20142	50510	В	20258	1	1317	
20143	50511	Α	20259	928	2067	
20144	50512	Α	20260	2	4498	VHELQSLSEMLKPEVLSPTVKG
		1				KLLTGIKSPRSYTPKPNPVTHVI
		1				STGIQKIWIGATVGSTEVSVAV
		1				TPDGYADAVRGDRFMMPAERR
	İ	1				LPLSFVLDVLEGRAQHPGVLYV
1	1	1		l		QKQCSNLPSELPQLLPDLESHV
1	1	ı		1	1	PWASEALVHKHHYENLYCVVS
				1		GEKHFLFHPPSDRPFIPYELYTP
						ATYQLTEEGTFKVVDEEAMEK
				1		VSVLFLGSREGEGOKPGSEEQA
				1		QKIWGVEAAVQRLGMLEAGIL
						POEGRFOALAEIADI
			L		L	- Quality Question And I

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nuclcotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Siop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
20145	50513	Α	20261	3	3137	DTPAWHGDANRTKAALEAARS
						DYLEFPPAARELCVPLAVPYLD
				ł		KPPTPLHFYRDWVCPNRPCIIRN
						ALQHWPALQKWSLPYFRATVG
				ľ		STKVSV\AVTPDGYADAVERGI
		ŀ				RF/M*LPVERRLPLSFVLDVLEG
			ł	ĺ		RAQHPGVLYVQKQCSNLPSELP
						QLLPDLESHVPWASEALGKMP
•				l		DAVNFWLGEAV*VTFLHKDHY
1						ENLYCVGSGEKHFLFHPPSDRP
						FIPYELYTPATYQLTEEGTFKVV
						DEEAMEKAEVSRTC
20146	50514	Α	20262	164	1236	AQSRRSRDRGQAFSNHHAAEHI
						TCTPGSGSGSRVSSGQAARRRL
				l		SGRAGLWAAVTNPPPHPTWLE
			ŀ			VSRSAAATARAALCRRSACLLP
						RTPHLSAMISASRAAAARL/VG
			i	İ		AAASRGLRAARHQIRSNQGTV
				l		VGIDLGTTNSCVAVMKKNVPF
				1		KIVRASNGDAW/VEAHGKLYSP
		1				SQIGAFV/LMKMKETAD**LFLS
						SEPPQPGQRAGFLQPSCCGAYY
	l			1		LYPWLRERQSSILWSGGAAAPQ
	ĺ					RKSGPLGRSDQPPPSPHVVGGF
l		l				QKRCRHRSRSSLPSERLFAASYS
ł	1					SFIRHDKCQPSCSSPSRGAAASR
	Ì			1		GLRAARHQIRSNQGTVVGIDLG
	ŀ					TTNSCVAVMKKNVPFKIVRAS
		l				NGDAWVRLMGNCILRVRLEHL
	ŀ					CDEDERDCRLIVALPEGMEEPE
						FDYQNDMGNSQDLERRRGCAA
			1	l	1	EPWEEGVGQSLALPLVSLCLKC
			1			RWYRSPCTQGQHPATFSGPAEG
						VISERSMLEHWHEEINQCKAYN
				l	1	EDVFSTMRTNPARISSEAMAPA
		l				DIIDHSSQRPDFTSGKMLADEF
	ĺ					GTASNIKSRVNAFQSWEPLHLY
						NKDSNL
20147	50515	Α	20263	216	728	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
	ł			sequence		
20148	50516	A	20264	1	2519	MAPSSRSGAGNTSTPGGCARAR
20148	130310	^	20204	ľ	2317	APPGNAGVHSGTQTGAVRDTA
						FISPSSPGLFLSSEPPOPGORAGE
						LOPSCCGAYYLYPWLREROSSI
		1				LWSGGAAAPQRKSGPLGRSDQ
		1				PPPSPHVVGGFOKRCRHRIAOL
		l				FAVGALVCCLVLLHLSAMISAS
1						RAAAARLVGAAASRGPT\AAR
1		1				
1		1				HQDSW\NGLSHEAFRLVSRRDY
		1				\AS\EAIKGAVVGI\DLGTTNSCV
		1				AVMEGNQAK\VLENAEGAKTT
						PSVVAFTADGERLGGMPAKRQ
1						AVTNPNNTFYATKRLIGRRYDD
1		1				PEVQKDIKNVPFKIVRASNGDA
1		1				WVEAHGKLYSPSQIGAFVLMK
1						MKETAENYLGHTAKNAVITVP
		l				AYFNDSQRQATKDAGQISGLN
		l				VLRVINEPTAAALAYGLDKSED
	1	1				KVIAVYDLGGGTFDISILEIQKG
		1				VFEVKSTNGDTFLGGEDFDQAL
i						LRHIVKEFKRETGVDLTKDNM
						ALQRVREAAEKAKCELSSSVQT
						DINLPYLTMDSSGPKHLNMKLT
		l				RAQFEGIVTDLIRRTIAPCQKA
1					1	MODAEVSKSDIGEVILVGGMT
1		l				RMPKVOOTVODLFGRAPSKAV
1		l			ł	NPDEAVAIGAAIOGGVLAGDV
				1	1	TDVLLLDVTPLSLGIET\HGAVF
1				1		SKLINRKTNIPTKKSOVFSTAAD
1		1		l	1	GQTQVEIKVCQGEREMAGDNK
ı		l		1		LLGOFTLIGIPPAPRGVPQIEVTF
		1		1		DIDANGIVHVSAKDKGTGREQ
20149	50517	A	20265	1	168	LERERKESRKELLNFYAWOH
20149	150517	l^	20203	ľ	100	RESKMEHLR/OLRKKFEEDKOR
				1		IELLRAQRKFRPY
1	1	1	1	ı	I	IELLKAQKKIKI

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	cudon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
20150	50518	A	20266	3	1085	ARAGAEPOLPATPALPGGKMV
						ARSLAGLSSG*PGHPSPPISFPAI
	1					PIKFSEKQQASHYLYVRAHGIQ
		l	1			OGTKWREALGWP/SRMLTLGF
1		1		1		P/PPCS/EESLSCLOSTCGLVOSV
		1		l		ELKFPDLPHPCTSCLAFSVPC*S
				l		SRTVSAGHLOGLPRLPSCFPTE
				l		GAPSPGLGAGSPGALLFRDLVP
		l				DVGRSPOPLTSLSLQGFQVAYV
		l l				VFOKPSGVSAALAVGPKCOA*
		l				GSPVSLAPFSSEWISDYADSVPD
		1		i	1	PGWRLREVPGAHRTMGSPSLO
1		ĺ				EEAKAKEEEGVPDEEGWVKVT
				ŀ		RRGRRPVLPRTEAASLRVLERE
						RRKRSRK\ELL\NFYAWOHSRE/
						SKMEHS*GKCARSFEEDKQRIR
						ACCGPKRKIPDRN
20151	50519	Α	20267	2	334	SLQVQPFASLISKAPLSTPRLLIN
1						KEKAGQSDPFLGMIMGLGGGM
						DFDSKKA/YAELLGWKKELEDL
l						VRREHASIDAQSGAGVPNPSTS
		l		i		ASPKKSPPPAKDEARTTEREKP
						Q
20152	50520	Α	20268	124	407	QSDPFLGMIMGLGGGMDFDSK
1		l				KAY/RVRPRRGLGQPGMDRVR
į		1			İ	WERGHEGR*EEQAGASPPGNS
1		1			1	DLLLHRRDVAWLGECDQGCLA
		L.				LAELLGWKVRS
20153	50521	Α	20269	193	458	
20154	50522	A	20270	55	1165	RDRAVGDSLKGFSTAPMAEPD
		l				PSHPLETQAGKVQEAQDSDSDS
ļ		l				EGGAAGGEADMDFLRNLFSQT
	ì	1		1		LSLG\SQKERLLDELTLEGVA\R
		l		i		YMQSERCSQSSSCLVGAGISTS
1		1			l	AGIPRLFASPSTGLLLNNLEK*P
						SFPNPEAIF*DSAIFKKH\PEPFFA LAK\EL\YPGAVSRPTICSIISCGL
					1	
						LERDKGGLLLR/CVKRREH*VT
1		l				WERIAG\LEQEDLVEAHGTFYT
					1	SHCVSASCRHEYPLSWMKEKIF
	1	1				SEVTPKCEDC\QSLVKPD\IVFFG
					1	ESLGARFFSCYCSSDFLKV\DLL
	1	1			1	L\VMGTSL\RDVAWLGECDQGC
					1	LALAELLGWKKELEDLVRREH
	1	1			1	ASIDAQSGAGVPNPSTSASPKK
L		<u></u>		L		SPPPAKDEARTTEREKPQ

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nuclcotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20155	50523	A	20271	3	357	FGFNGCSKRIIKLQELSDLEERE
						NEDSMVPLPKOSLKFFCALEVV
	1					LPSCDCRSPGIGLVEEPMDKVE
						EGPLSFLMKRKTAQKLAIQKAL
l		1				SDAFQKLLIVVLG/QDCLDHP*S
	1	1				TSVSVSK
20156	50524	Α	20272	696	1123	IPLKMMNFLQSLKSPQLSHQLR
						L*LPQEVEPSLTQQNFPAQTP/V
1		ŀ				PPMEAEPSPNQQEATVQASEPP
						KNIELSSQQMVPENIFPPTMENS
1						NQLPEPPTEVVAQLPPRYEVTIP
						TQGQDQAQLSTLASVTLQPLDL
		l				GFIITPESTTEIELSPTMQETPTQ
	1	l				PPKEFVPQPPV/LSRESSEETGPL
						PVQQETSAESPEPTKDENPSPIQ
	1					*EAAFSEISSQGSSWHQT
20157	50525	A	20273	1	727	GIPAADR\EASLELIKLDISRTFP
						NLCIFQQGGPYHDMLHSILGAY
			-			TCYRPDVGYVQGMSFIAAVLIL
						NLDTADAFIAFSNLLNKPCQMA
	l	1				FFRVDHGLMLTYFAAFEVFFEE
						NLPKLFAHFKKNNLTPDIYLID
-	1	l	İ			WIFTLYSKSLPLDLACRIWDVF
		1				CRDGEEFLFRTALGILKLFEDIL
i	1	l				TKMDFIHMAQFLTRLPEDLPAE
:	l	l				ELFASIATIQMQSRNKKWAQVL
						TALQKDSREMEKGSPSLRH
20158	50526	Α	20274	3	435	CGGIPKMEESAEYEAARHKRE
		l				KRMENINLAGSKRGKEDGKDS
		1				EFAAIENLPGFELLSDREKVLCS
	ŀ					SLNLSPARYVTVKTIIIKDHLQK
		1				RQGIP/CQKPPS*LPGQSPKEKD
		1		i		FEFPHRKRLDLQGRVLKLRRFE
						SQGDAQTVCQPK
20159	50527	A	20275	46	513	

NO: of peptide sequence load in USSN postage, 277 codons for peptide sequence load for peptide s	SEQ ID	11/0/300/		Tono in and			PC1/US01/08631
20160							
20160 S0528	1.0.		1.00				
NIGEMASTIFITATION (USA) NILKDTILRAGEQUEGUEEVE (SGAKLHPNOYRMAQGSETLA RGGPCRSVERSASPQELRGW WEAQALKRWCLMGGVWVM VDPSWLGAISAIVSSSASRLLK VWHIPCHFILLRPQLKEAGG KKQLEERCRVESIGNAVLTV NNEILPNWETMWCSRKVRDLL WQGIPPSVRGKVWSLAIGNEI ITHELFDICLARA ERWRSLS) GSEVENEGLCVAVCAQQGHV VMGFGSDEPSAVSPCEKGKSL AWVLIFVDRRVGLKSFQKRK ERESTKLQQLWSWCLMLTYF AFEVFEENLRKLFAHFKKNN TPDIVLIDWFRELLVGC EDSEMAPPAPGPASGGFGEVY LFDVKNAFYIGSYQQCINEAQ VKLSSPERDVERDVFLYRAVL RRDSSVAELDREMSRSSVDYTTH ITHLMAASIYLHDQNPDAALR LHQGDSLECTAMTVQLIKLLD LDLARKELKRMQDLDEDATL' QLATAWVSLATGG FFYKSVLAQKEVRCVLDE/ISPG GPPELKPVRMFADILPHESRR DSSVPELAEKMRSSNDYTPPE LLMAASIYLHDQNPDAALRAL HQGDSLECTAMTMQDAYYIFC EMADRCSPTLLLNQQAACHH AQGRWEAAEGLLQEALDKDS YPETLVNLIVLSQHLGKPEVT NRYLSQLKDAHRSHFFIKEYQ KENDFDRLLUQVAPSA 0163 50531 A 20279 I 884 RKFGVVLDEIKPSSAPELQAVR MFADYLAHESRRDSIVAELDRI MFROYLCH MFROYLAHESR MFROYLCH MFROYLAHESR MFROYLCH MFROYLAHESR MFROYLCH MFROYLAHESR MFROYLCH MFROYLCH MFROYLCH MFROYLCH MFROYLCH MFROYLCH MFROYLCH MFROYLCH MFROYLCH MFROYLCH MFROYLCH MFROY		'				or pepulae sequence	detection, 1-possible nucleotide insertion)
NIGEMASTIFITATION (USA) NILKDTILRAGEQUEGUEEVE (SGAKLHPNOYRMAQGSETLA RGGPCRSVERSASPQELRGW WEAQALKRWCLMGGVWVM VDPSWLGAISAIVSSSASRLLK VWHIPCHFILLRPQLKEAGG KKQLEERCRVESIGNAVLTV NNEILPNWETMWCSRKVRDLL WQGIPPSVRGKVWSLAIGNEI ITHELFDICLARA ERWRSLS) GSEVENEGLCVAVCAQQGHV VMGFGSDEPSAVSPCEKGKSL AWVLIFVDRRVGLKSFQKRK ERESTKLQQLWSWCLMLTYF AFEVFEENLRKLFAHFKKNN TPDIVLIDWFRELLVGC EDSEMAPPAPGPASGGFGEVY LFDVKNAFYIGSYQQCINEAQ VKLSSPERDVERDVFLYRAVL RRDSSVAELDREMSRSSVDYTTH ITHLMAASIYLHDQNPDAALR LHQGDSLECTAMTVQLIKLLD LDLARKELKRMQDLDEDATL' QLATAWVSLATGG FFYKSVLAQKEVRCVLDE/ISPG GPPELKPVRMFADILPHESRR DSSVPELAEKMRSSNDYTPPE LLMAASIYLHDQNPDAALRAL HQGDSLECTAMTMQDAYYIFC EMADRCSPTLLLNQQAACHH AQGRWEAAEGLLQEALDKDS YPETLVNLIVLSQHLGKPEVT NRYLSQLKDAHRSHFFIKEYQ KENDFDRLLUQVAPSA 0163 50531 A 20279 I 884 RKFGVVLDEIKPSSAPELQAVR MFADYLAHESRRDSIVAELDRI MFROYLCH MFROYLAHESR MFROYLCH MFROYLAHESR MFROYLCH MFROYLAHESR MFROYLCH MFROYLAHESR MFROYLCH MFROYLCH MFROYLCH MFROYLCH MFROYLCH MFROYLCH MFROYLCH MFROYLCH MFROYLCH MFROYLCH MFROYLCH MFROY		4	_				1
KGAKLHPNOYRMAQGSETLA RGGPCRSVEPSASPQELRGW WEAQALKRWGLMGGVWYM VDPSWLGAISAIVSSSASPLLE VWHIPCHFILLRPQLKEAGE KKQLEFECREVESIGNAVLTW NNEILPNWETMWCSRKVNDL WQGIPPSVRKVWSLAIGNEIL ITHELFDICLARAKERWRSLSI GSEVENEGLCVAVCAQQGHW VMGFGSDEPSAVSPCEKGKSL AWVLIFVDFRVGLQKSFQKR ERESTKLQQLWSWCLMLTYY- AFEVFFEENLPKLFAHFKKN TPDIYLIDW*FRLUVGC 20161 50529 A 20277 60 556 EDSEMAPPAPORASGGFGEVY LFDVKNAFYIGS YQQCINEAQ VKLSSPERDVERDVFLYRAVL RRDSIVAELDREMSRSVDVTN TFLLMASISYLHDQNPDAALR LHQGDSLECTAMTVQLLKLD LDLARKELKRMQDLDEDATL' QLATAWVSLATGG GPPELRVRMFADLLPHESRS DSSVPELAEKMSRSVDVTPPE LLMAASIYLHDQNPDAALRAL HQGDSLECTAMTMQDAYYIFE EMADKCSFTLLLLNQQAACHA AQGRWEAAGELQEALDKDS VPETLVHILVLSQHLGKPPEVT NRYLSQLKDAHRSHFFIKEYQ KENDFDRLVLQVAPSA RRFGVVLDEIKPSSAPELQAVR MFADYLAHESRRSDIVAELDRI MSRSVDVTNTTFLLMAASIYLH DQNPDAALRALHQGDSLECTA MTVQLLKLDRAFRSINGALDRI MSRSVDVTNTTFLLMAASIYLH DQNPDAALRALHQGDSLECTA MTVQLLKLDRAFRSINGALDRI MSRSVDVTNTTFLLMAASIYLH DQNPDAALRALHQGDSLECTA MTVQLLKLDRAFRSINGALDRI MSRSVDVTNTTFLLMAASIYLH DQNPDAALRALHQGDSLECTA MTVQLLKLDRADRI MSRSVDVTNTTFLLMAASIYLH DQNPDAALRALHQGDSLECTA MTVQLLKLDRADRI MSRSVDVTNTTFLLMAASIYLH DQNPDAALRALHQGDSLECTA MTVQLLKLDRADRI MSRSVDVTNTTFLLMAASIYLH DQNPDAALRALHQGDSLECTA MTVQLLKLDRADRI MSRSVDVTNTTFLLMAASIYLH DQNPDAAGRALGASSLDSGVPE TLYNLLVLSQLLGRPEVTNRY LSQLKDAHRSHPFIKEYQAKEN DFDRLVLQVAPSA	20160	50528	A	20276	3	1084	
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0163 50531 A 20279 I 884 RKFGVLDEIKPSSAPELQAVR MFADYLAHESRRDSIVAELDRI MSRSVDVTNITTELLMAASIYLI DONPPAALRALHQGDSLVECT- MTVQILLKLDRLIDLARKELKI MQDL.DEDATL.TQLATAWVSL VATGGEKLQDAYIFOEMADKA SPTLLLLNGQAACHMAQGRWI AAEGLLQEALDK.PPHGCSCERI LVSPFMVETEAQKSPVCKKVPP HGPPWAGRALGASSLDSGYPE TLVNLIVLSQHLGKPPEVTNSY LSQLKDAHRSHPFIKEYQAKEN DFDRLVLQVAPSA			H				YPETLVNLIVLSQHLGKPPEVT
0163 50531 A 20279 I 884 RKFGVVLDEIKPSSAPELQAVR MFADVLAHESRROSIVAELDRI MFADVLAHESRROSIVAELDRI MFADVLAHESRROSIVAELDRI MFADVLAHESRROSIVAELDRI MFADVLAHESRROSIVAELDRI MFADVLELLENDLAHELEKE MODLIDEDATILTQLATA WVSI VATGGEKLQDAY YIFQEMADKI SPITLLIMGQAACHMAQGRWI AAEGILQEALDRYPHGCSCERI LVSPRIVETEA QASPLOKEYPH HOPPWAGRALGASSLDSGYPE TLVNLIVLSQHLGKPPEVTNRY LSQLKDAHRSHPFIKEYQAKEN DFDRLVLQVAPSA							NRYLSQLKDAHRSHPFIKEYQA
MRADYLAHESRRDSIVAELDRI MRADYLAHESRRDSIVAELDRI MSRSVDVTNITTELIMAASIYLI DONPDAALRALHQGDSLVECT- MTVQILLKULDRLDLARKELKI MQDL.DEDATL.TQLATAWVSL VATGGEKL.QDA.YIFOEMADKI SPTLLLLNGQ.AACHMAQGRWI AAEGLLQEALDK.PPHGCSCERI LVSPFMVETE.QKSPVCKK.VP HGPPWAGRALGASSL.DSGYPE TLVNLIVLSQHLGKPPEVTNSY LSQLK.DAHRSHPFIKEYQAKEN DFDRLVLQYAPSA 0164 50532 B 20280 512 903	20162		\square				
MSRSVDVTNTTFLLMAASIYLI DQNPDAALRALHQGDSLVECT/ MTVQILLKUDRLDLARKELKK MQDLDEDATLTQLATA WVSI VATGGEKLQDA VYIPGEMADKI SPTLLLINGQAACHMAQGRWI AAEGLLQEALDKPPHGCSCERI LVSPFNVTETA GKSPVCK LVP HGPPWAGRALGASSLDSGYPE TLVNLIVLSQHLGKPPEVTNRY LSQLKDAHRSHPFIKEYQAKEN DFDRLVLQYAPSA 0164 50532 B 20280 512 903	20163	50531	A	20279	I	884	RKFGVVLDEIKPSSAPELQAVR\
DONPDAALRALHOGDSLUCT/ MTVQILLKUDRLUDLARKELKI MQDLUDEDATLTQLATAWVSI ATGGEKLQDAYYIFQEMADKI SPILLLINGQAACHMAQGRWI AAEGLLQEALDKPPHIGSCSERI LVSPFMVETEAQKSPVCKKVPC HGPPWAGRALGASSLDGYPE TLVNLIVLSQHLGKPPEVTNRY LSQLKDAHRSHPFIKEYQAKEN DFDRLVLQYAPSA D164 50552 B 20280 512 903			1 1				MFADYLAHESRRDSIVAELDRE
MTVQILIKLDRLDLARKELKI MQDLDEDATLTQLATAWVSI VATGGEKLQDAYYIFQEMADKI SPTLLLLNGQAACHMAQGRWI AAEGILQEALDKPPHGCSCERI LVSPFMVETEAQKSPVCKKVP HGPPWAGRALGASSLDSGYPE TLVVLIVLSQHLGKPPEVTNSY LSQLKDAHRSHPFIKEYQAKEN DFDRLVLQYAPSA 0164 50532 B 20280 512 903			1				
MQDL\DEDATL.TQLATA \MVSI \text{VATGEKLQDAYYIFQEMADKE} \text{SPTLLLINGQAACHMAGGRWE} \text{AAEGLLQEALDKPPHGESGER} \text{LVSPFMVETEA,OKSPYCKKVP} \text{HGPPWAGRALGASSLDSGYPE} \text{TLVNLIVLSQHLGKPPEVTNRY} \text{LSQLKDAHRSHPFIKEYQAKEN} \text{DFDRLVLQYAPSA} \text{DFDRLVLQYAPSA}					1	1	DQNPDAALRALHQGDSL\ECTA
ATGGEKLQDAYYIFQEMADKI SPILLLINGQAACHMAQGRWI AAEGILQEALDRPPHIGCSCERI LVSPFMVETEAQKSPVCKKVPC HGPPWAGRALGASSLDGYPE TLVNLIVLSQHLGKPPEVTNRY LSQLKDAHRSHPFIKEYQAKEN DFDRLVLQYAPSA D164 50552 B 20280 512 903					1		MTVQILLK\LDRL\DLARKELKR
SPTLLLLNÖQAACHMAQGRWI AAEGLQEALDKPPHGCSCERI LVSPFMVETEAQKSPVCKKVP HGPPWAGRALGASSLDSGYPE TLVNLIVLSQHLGKPPEVTNSY LSQLKDAHRSHPFIKEYQAKEN DFDRLVLQYAPSA DFDRLVLQYAPSA						į.	MQDL\DEDATLTQLATAW\VSL
AAEGLLQEALDKPPHGCSCERH						1	ATGGEKLQDAYYIFQEMADKC
LVSPEMVETEAQKSPVCKKVPC HGPPWAGRALGASSLDGYPE TLVNLIVLSQHLGKPPEVTNRY LSQLKDAHRSHPFIKEYQAKEN DFDRLVLQYAPSA DFDRLVLQYAPSA							SPTLLLLNGQAACHMAQGRWE
HGPPWAGRALGASSLDSGYPE TLVNLIVLSQHLGKPPEVTNRY LSQLKDAIRSHPFIKEYQAKEN DFDRLVLQYAPSA							
TLVNLIVLSQHLGKPPEVTNRY LSQLKDAHRSHPFKEYQAKEN DFDRLVLQYAPSA B 20280 512 903						ļi	LVSPFMVETEAQKSPVCKKVPC
TLVNLIVLSQHLGKPPEVTNRY LSQLKDAHRSHPFKEYQAKEN DFDRLVLQYAPSA B 20280 512 903					l	þ	HGPPWAGRALGASSLDSGYPE
LSQLKDAHRSHPFIKEYQAKEN DFDRLVLQYAPSA			- 1		ŀ		
0164 50532 B 20280 512 903						ļi	SQLKDAHRSHPFIKEYQAKEN
700			_				DFDRLVLQYAPSA
0165 50533 A 2028I 18 413	20164		_				
	0165	50533	A 2	20281	18	113	

SEQ ID	SEO ID NO	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20166	50534	Α	20282	1	1195	MKHPNINSALQAPHPFVPGRPH
						LVAGVAPPALSNHPQARATAA
						AGKPHPRCAEAAGIGLACTAPG
			ŀ			SHWLKMGELPLDINIQEPRWD
			ŀ			QSTFLGRAP\HFFTVTDPRNLLL
				•		SGAQLEASRNIVQNYRAGVVTP
			l			GITEDQLWRAKYVYDSAFHPD
						TGEKVVLIGRMSAQVPMNMTI
			l			TGCMLTFYRQGSKDEGHCRRG
		ĺ				RSECLCSLRKTPTVVFWQWVN
l						QSFNAIVNYSNRRW*HFPSLVR
			l			QLGT\AYVSAT\TGAVATALGL
						KSLTKHLPPLVGRFVPFAAVAA
				l		ANCINIPLMRQRELQVGIPVAD
						EAGQRLGYSVTAAKQGIFQVVI
						SRICMAIPAMAIPPLIMDTLEKK
i				l		DFLKRRPWLGAPLQVGLVGFC
				l		SIHISNLEPELRAQIHEQNPSVE
						VVYYNKGL
20167	50535	В	20283	24	51	
20168	50536	С	20284	1	1182	
20169	50537	В	20285	1	372	EV . COMMENT . C
20170	50538	Α	20286	1	4610	ELAQNHSRPAPASAPGGGGGG
						DPNMATARTFGPEREAEPAKE
1						ARVVGSELVDTYTVYIIQVTDG SHEWTVKHRYSDFHDLHEKLV
						AERKIDKNLLPPKKIIGKNSRSL
						VEKREKDLEVYLQKLLAAFPG
						VTPRVLAHFLHFHF\YET*VIHA
						A\LAEELFEKGEQLLGAGEVFAI
				l		GPLQLYAVTEQLQQGKPTCAS
				l		GDAKTDLGHIL\DFTCRLKYLK
						VSGTEGPFGTSNIQEQLLPFDLS
						IFKSLHQVEISHCD
20171	50539	A	20287	1	4670	MAAQRAAGATGGGGRGASAP
				1		GGGGGGDPNMATARTFGPERE
						AEPAKEARVVGSELVDTYTVYI
						IQVTDGSHEWTVKHRYSDFHD
						LHEKLVAERKIDKNLLPPKKIIG
						KNSRSLVEKREKDLEVYLQKLL
				1		AAFPGVTPRVLAHFLHFHFYEI
						NGITAALAEELFEKGEQLLGAG
ĺ			1			EVFAIGPLQLYAVTEQLQQGKP
1	l		1			TCASGDAKTDLGHILDFTCRLK
			1	i		YLKVSGTEGPFGTSNIQEQLLPF
		L	L			DLSIFKSLHQVEISH
20172	50540	Α	20288	2	227	ERFRPPIARVIDVSNGKVHVAE/
				I		SCLEETGGLGVDIVLDAG\LDPP
			1	l		DSHCLFLKGATLAFLNDEVWN
						LSNVQQGRYL
20173	50541	Α	20289	3	487	

SEQID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
20174	50542	Α	20290	2	222	
20175	50543	Α	20291	1	296	HLSPGKSV\LIMDGASA\F\GTIAI
						QLAHHRGAKVISTACSLEDKQC
				i		LERFRPPIARVIDVSNGKVHVA
						ESCLEETGGLGVDIVLDAGGYI
						FQHSSYIFT
20176	50544	Α	20292	353	512	
20177	50545	Α	20293	2	396	VRLYSKDDEPAVKLQLLPHKH
						DIITLLGVGGHWVTTEENLQLD
						PPDSHCLFLKGATLAFLNDEVW
						NLSNVQQGKYLS*QSFQLRILK
	1				i	DVMEKLSTGVFRPQSDEHIPVF
						EARI\SLEIVEKNQGR*NKLHF
20178	50546	В	20294	Ī	1182	
20179	50547	Α	20295	I	1189	PTRPDQWEQGAGSLTKDWKV
				i		AVVKVQAVGAAQRQVTMKGL
						YFQQSSTDEEITFVFQEKEDLPV
						TEDNFVKLQVKACALSQINTKL
ļ						LAEMKMKKDLFPVGREIA\GIV
1	1			l		LDVGSKVSFFQP\DDEVVGILP\
	1					LDS*KTPGL\CESLLRVHEPLLG
						FINPEKVTW\TEAAGSISGMGV
						RAYYSFLHLS/YLHLLSWGKSV
1	1					LIMGGS/ASAFGTIAIQLAHHRG
1	1					AKVISTACSLEDKQCLERFRPPI
1		1		ŀ		ARVIDVSNGKVHVAESCLEETG
1						GLGVDIVLDAGVRLYSKDDEP
1						AVKLQLLPHKHDIITLLG\VGGH
l				l		WVTTEENLQLDPPDSHCLF\LK
		1	l	l		GATLAFLNDEVWNLSNVQQGK
						YLCILKDVMEKLSTGVFRPQLD
L						EPIPLYEAKVSMEAV\QKNQGR
20180	50548	Α	20296	3	115	FFKFSFFNGC*SIKRQSQGQALD
		1		l	l	RDIICFVDICTKDC

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	tocation of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
		<u> </u>				
20181	50549	A	20297	1	1401	MKEEELTRQIVLVQEAGKGVV
						RTKDGACAEVWQALEELEKGL
						CAGIVRVEGMAAAPPSYCFVAF
						PPRAKDGLVVFGKNSARPRDE
		l				VQEVVYFSAADHEPESKVECT
l						YISIDQVPRTYAIMISRPAWLW
l					1	GAEMGANEHG\VCIANEAINTR
		1				EPAAEIEALLGMDLVRL\GLER
						GETAKEALDVIVSLLEEHGQGG
						NYFEDANSCHSFQSAYLIVDRD
			İ			EAWVLETIGKYWAAEKVTEGV
		l				RCICSQLSLTTKMDAEHPELRS
				ļ		YAQSQGWWTGEGEFNFSEVFS
				Į		PVEDHLDCGAGKDSLEKQEESI
				l		TVQTMMNTLRDKASGVCIDSE
						FFLTTASGVSVLPQNRSSPCIHY
				ŀ		FTGTPDPSRSIFKPFIFVDDVKL
				İ		VPKTQSPCFGDDDPAKKEPRFQ
		ļ.	l			EKPDRRHELYKAHEWARAIIES
						DQEQGRKLRSTMLELEKQGL*
		į.		l	i	AMEEILTSSEPLDPAEVGDLFY
20182	50550	A	20298	1	356	QTPKIVADKDYSVTANS\KIVV
1						VTAGVRQQEGESRLNLVQRNV
				İ	1	NVFKFIIPQIVKYSPDCIIIVVSNP
						VDILTYVTWK/ARFRYLMAEKL
			ľ			GIHPSSCHGWILGAHGDSSVAV
			Ì	ŀ		WSGVNLAG
20183	50551	A	20299	1	322	
20184	50552	Α	20300	25	1086	
20185	50553	Α	20301	1	864	
20186	50554	Α	20302	13	190	

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nuelcotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop endon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20187	50555	A	20303	1	1350	MEKPKRLRWLWGPAPSSLLAE
						PAPEETHAADFVFSARLLQRSP
						EPSLSWGGRALAEEQKAEGSSC
				l .		GSAERLVAFAAKTRPYLSLCK
						MATLKEKLIAPVAEEEATVPNN
× .						KITVVGVGQVGMACAISILGKS
						RAMEHTTAGAPYTPRQQTCQC
						NMMSLADELALVDVLEDKLKG
						EMMDLQHGSLFLQTPKIVADK
				l		DYSVTANSKIVVVTAGVRQQE
						GESRLNLVQRNVNVFKFIIPQIV
						KYSPDCII\IVVSNPRDI\LTYGT
						WKLSGLPKHRVIGSGCNLDSAR
						FRYLMAEKLGIHPSSCHGWILG
]		EHGDSSVAVWSGVNVAGVSLQ
				1		ELNPEMGTDNDSENWKEVHK
			l			MVVESA\YEV\IQA*KGYTH\WA
						IGLSVA/EILNESMLKNLSR\IHP
						VSTMVKGMYGIENEVFLSLP\CI
						\LNAGGLTSVINP\KVKDDEVAQ
						LKKSADTLWDI\QKDLKDL
20188	50556	В	20304	1337	1706	
20189	50557	A	20305	178	344	
20190	50558	Α	20306	2	297	TKMTVNNLHPRVTEEDIV/GQP
						MKCNLHMNGNVITSDQPILLRL
						SDSPSMKKESELPRRVNSASSS
ł						NPPAEVDPDTILKALFKSSGAS
20191	50559	В	20307	8	478	VTTQPTEFKIKL
20191	50560	C	20307	146	391	
20192	50561	A	20308	3	735	HROKDARFRIKGKVODAREML
20193	30301	^	20309	ľ	1733	NSRKOOTTVPOKPROVADARE
1						KISLKRSSPAAFINPPIGTVTPAL
1						KLTKTIQVPQQKAMAPLHPHPA
1						GMRINVVNNHQAKQNLY\DLD
						EDDDGIASVPTKQMKFAASGG
						FL\HHM\AGLSSSKLSMSKALPL
				i		TKVVQNDAYTAPALPSSIRTKA
1						LTNMSRTLVNKEEPPKELPAAE
1						PVLSPLEGTKMTVNNLHPRVTE
1						EDIVELFCVCGALKRARLVHPG
1				1		VAEVG
	L	L	L	<u> </u>		TALIU

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20194	50562	Α	20310	1	1763	MEIASFVGPNVNTVGNLRPAQS
						AAGDGDEVQSVHSQRQDCQAT
			Į			GSLSNGENNEKNAFTTYQQET
						KNTTTPQSVYFLGVNKMSSQH
ŀ						REG\$RGTSPPLPVLACFELAVA
		İ				RVGPRTPEVVRRSLAAEGAGSR
İ					i	GLDCFRLARRIKMADISLDELIR
l						KRGA\AAKGRLNARPGVGGVR
						SRVGIQQGLLSQSTRTATFQQR
l						FDARQKIGLSDARLKLGVKDA
		l				REKLLQKDARFRIKGKVQDAR
		1				RDV*TFRKQQTT\VPQKPRQV\A
		1				D\ARERIQLGRGRSPAAFLNPPI
						GTGTPALKLTTTIQRMHVDPVG
			i			WILTTECFQVPQQKAMAPLHP
						HPAGMRINVVNNHQAKQNLY
						DLDEDDDGIASVPTKQMKFAA
						SGGFLHHMAGLSSSKLSMS\KA
				i		LPLTKVVQNDAYTAPALPSSIR
			i			TKALTNMSRTLVNKEEPPKELP
	İ					AAEPVLSPLEGNKMTV\NNLHP
		ŀ				RVTEEDIV\EVFCVCGGL/RRRA
						RLVPSGG*PKVVFCEKRDDAIT
		1				AYKKYNNRCLDGQPMKCNL\H
		l				MNGNVITSDQPILLRLSDSP\SM
ļ						KKESELPRRVNSASSSNPPAEV
						DPDTILKALFKSSGASVTTQPTE
20195	50563	A	20311	3	915 3238	LDTDDDLNSDDYEYEDEAKLV
20190	30304	^	20312	ľ	3238	FPDHYEIALPNIEELPALVSECA
						RLLARCAWLCVSLKLSTLLTDD
		l				TGLLTVRNKEEVLARSAKVTIA
ĺ		l				CDAVLSSKSPYRKQDPDTWEN
						ELPVSKYANNLTOLDNGVRIPP
						SGWKCARCDLRENLWLNLTDG
		l				SVLCGKWFFDSSGGNGHALEH
		l				
			1	l		YRDMG\YPLAVKLGTITPDGAD
l		1		l		VYSFQEEEP\VLDPHLAKHLAH
l		1				F\GID\MLHMHGTENGLQ\D\NDI
l	1	l	i	l	1	KLRVSEWEVIQES

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20197	50565	A	20313	2	2716	AEFRGIPRRRRRQTPRSGSGSAR SAPVRAEAMQRRGALFGMPGG
		ł				SGGRKMAAGDIGELLVPHMPTI
ł						RVPRSGDRVYKNECAFSYDSPN
1						SEGGLYVCMNTFLAFGREHVE
1		l				RHFRKTGQSVYMHLKRHAREK
						VRGASGGALPKRRNSKIFLDLD
						TDDDLNSDDYEYED*AFLVIFP
						DHYEIALPNIEELPALVTIACDA
						VLSSKSPYRKQDPHTWENELPV
						SKYANNLTQLDNGVRIPPSGW
	*****	ļ	20244		200	KSARCDLRENLWLN
20198	50566	A	20314	2	322	a contraction and a contraction of
20199	50567	Α	20315	1285	3331	GAGAPRDWRLRRRGGAALCLK
		l				VLFDVRSFPREAAALTPHRLLQ
		l				FPRSSESPGDQMMAAARLLPVP AGPQPLSFQAKLTFEDVAVLLS
						ODEWDRLCPAORGLYRNVMM
		1				ETYGNVVSLGLPGCKPDIIFHLE
1		1				LRGISLGPVPEWG*EEPGPVE*L
		1				L/ENVETKGESONTDLSPKPLIS
		ı				EQTVILGKTPLGRIDQENNETK*
		ı				SFCLSPNSVDHREVOVLSOSMP
į.				l .		LTPHQAVPSGERPYMCVECGK
						CFGRSSHLLQHQRIHTGEKPYV
			l	İ		CSVCGKAFSQSSVLSKHRRIHT
				1		GEKPYERNRACISLYSE\PHLAH
				l		LSLIHTGEKPH*CLECPKAFTQL
	İ	l		l		SHLIOHORIHTGERPYVCPLCG
				l		KAFNHSTVLRSHQRVHTGEKP
		İ		l		HRCNECGKTFSVKRTLLQHQRI
						HTREKPYTCSECGKAFNDRSV
				l		LIQHHNVHTREKPYECSECGKT
1				l		FSHRSTLMNHERIHTEEKPYAC
1		l	ŀ	l		YECGKAFVQHSHLIQHQRVHT
		1		i		GEKPYVCGECGHAFSARRSLIQ
				l		HERIHTGEKPFQCTECGKAFSL
ł				1		KATLIVHLRTHTGEKPYECNSC
1		i				GKAFS\RTQLLIQHQRIHTGEKP
		1	1	l		YECGECGGAFNQHGHLIQHQK
		1	l	l		SAQKSCDPWLTQE/CPFSQKLH
			l	l	1	VEPTSSLQPKRSLC*LYRKLFFG
1		1		l	1	DSVSQNNSRKKHLACCSCGKTS
		_				ETTCFIFLNHLEV/HVGE*SYNC
20200	50568	Α	20316	1	319	
20201	50569	A	20317	1	2433	
20202	50570	A	20318	2	293	GELAGTQCTRGACPHSP*PLHR
				1		Q/HTTVTHITAFDPDSTGQQVW
	1					QDLLQDGQLDSPTGDGGSDWE
1		1	İ	l		MVGREVVPVLGPGVGGLVISRP
				L	L	CFHVRDPYPWG

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20203	50571	A	20319	1	537	GGGTTTRGWRGQFCRWQLNPG MYQHRTVIADOMRTLRSREV** HAQGHKFTVCLRREGGTVGV VLSLERPSVLRSWNWGLCGYF AFY HALYPRAWTVVQLPGQNV IT.TCRQITPILPHDYQVRPPHLY LPLPSLPQDLPLLETAWPARRG SHACNPNTLGGKAGGSRDQEIE TILANT
20204	50572	C	20320	3	170	
20205	50573	A	20321	278	1018	RVGVYSRRPEVRNWATRDCRAG ERMTHCLHEMGRAGAASLTP KPMSLISAYCGGLWLAAVAW VQMAALCEGTGGSUFLLSSA GAKKPMRDCCGMVSSGSLSSL KAAERTPGALFFSSSTFGRYYN GVPEGLWPFEKGDTEVREEEQ PERKMGFPWRWEVFPTQHVVR ALQTIFELNYQAFAGGAMGAV NGMOPHGVPDKSSVQSDEVW VGVYYGLAATMIQE
20206	50574	Α	20322	3	627	

2581

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
20207	50575	Α	20323	270	2945	NTSSFKLSPTTGPPGRYLTTTG
						RIWNRLARYLVSEGSGLGAIEV
						MGTQDPGNMGTGVPASEQISC
						AKEDPQVYCPEETGGTKDVQV
	1			1		TDCKSPEDSRPPKETDCCNPED
				1		SGQLMVSYEGKAMGYQVPPFO
						WRICLAHEFTEKRKPFQANNV
						LSYMIKHIGMGLRYLQWRDRK
				1		THVEKKTPFIDMNKSVPPIQSY:
						\VPLGGLRGGTSTRGWRGQFCF
						WQLNPGMYQHRTVIADQFTVO
						LR\REGQTVYQQVLSL\ERPSVL
		1				RSWNWGLCGYFAFYHALYPR/
		1				WTVYQLPGQNVTLTCRQITPIL
						PHDYQDSSLPVGVFVWDVENE
	1					GDEALDVSIMFSMRN/GTGWW
	1					RRCPRGFVGMSPSVWSVGVQT
	1				,	VRGLLLHSSNPSKPLHDGLWL/
						RSSRAATTVNPH/CTAFDPG\RT
						GAA\VWQDLLQDGQLDSPTGQ
						RTPTQKGVGIAGAVCVSSKLRI
	i					RGQCRLEFSLAWDMPRIMFGA
	1					KGQVHYRRYTRVFGAG\GDAP
	1	1			l	PALSHYALCRYAEWEERISAW
	1					QSP\VLDDRSLPAWYKSALFNE
	1		i			LYFLADGGTVWLEVLEDSLPE
	1					\RAETSVTSAPTLRDYRRFG*LE
						GQEY\RMYNTYDVHFYASFAL
]	l				MLWPKLELSLQYDMALATLRE
		l				DLTRRRYLMSGVMGTCEKEGT
	1	1				FIPHDIGGPRWMEPWASAFNA
						\LIHDTADW\KDLNLKFVACRF
20208	50576	С	20324	123	359	
20209	50577	Α	20325	1	259	KPVGEKDTWSGMRTTGQLRP/
	į.	ı				HGVRLKANKDSLYKPILRQKK
		l				HFNSLHIPKALQKALPFKNKPK
	İ	1				TQAKAGKVPKDRRR*TVSNIT\
20210	50578	Α	20326	297	585	
20211	50579	Α	20327	182	374	PDFRIAAT*VVLDLDKSIKIVKK
	1	1				LKLTGFPYKIFKNTSFIKACISIY
	1	1	I			SHIYKSPYCLRKGMKYL

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nuelcotide		Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nuclcotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
20212	50580	Α	20328	I	1267	MAANRKDFIHRRCGPELSQSEA
						VPOGLCRAERSSALAMLSGSVP
		İ	1			RRTQLRPCKGTQRRCRRGGEA
		1				DSGGEAVGGGAAERRSAAARR
		l	1		1	RGGRRRGGGEAVGGGAAERRS
						AAARRRRGGRRRRGGGEAGGG
						GAAEARRAAAARRA
		1	1			AAARRAAAARRAAAARRIAES
i		1				GGEAHSRGEAHSGGA
	1					GAERRRPRLHSPALKTHPGOSS
i						EGHVEYKLNHVEFEDQDDEAR
i						VQYEGFRPGMYVRVEIENVPCE
					1	FVQNFDPLYPIILGGLGNSEGNV
						GHVQMRLKKHLWYKKILKSQ
	1					DPIIFSVGWRRFQTILLYYIEDH
						NGRQRLLKYTPQHIHCGAAFW
						DIVFMRT\WYLVSIPAFYNPVTS
						LLKPVGEKDTWSGMWTTGQL
						RLAHGVRLKTTKDSLYKNIHMI
						VETDTYSDHEEINTS
20213	50581	Α	20329	66	1414	KEELYGDFEDLETGDVHKGKS
						GPDTQNEDVEK\KEEIDPDEEES
ŀ						AKKKHLDKKRKLKEMFDVEY
l	1					DEGESTYFDDLKGEMQKQAQV
			İ		1	N/RHTRFPPRAPRHVQLNHAEF
					1	EDQDDEARVQYEGFRPGMYVC
İ	i	!				VEIENVPCEFV*NLDPRYPIILG
			1			GLGNSEGNVGYVQVGPFAAYL
						VPEALWISPPSIILPSHPPQMRLK
	i					KHRWYKKILKSRDPIIFSVGWR
						RFQTIPLCYIEDHNGRQRLLKY
						TPQHVHRGAAFRSSSSSSSSSSS
				l		SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
				l		IAATGVVLDLDKSIKVVKKLKL
				l		TGFPYKIFKNTSFIKGMFNSALE
						VAKFEDAVIRTVSGIRGQIKRA
		1		ŧ		L*APEGAFQDSLEDKLRMSDIV
	1	İ		l		FMRTWYPVSIPAFYNPVTSLLK
	1			l		PVGEKDTWSGMWTTGQLRLA
	1	1	1	l	I	HGVRLKTNKDSLYKVLVVCVL
	1	1	l	i		VEMKPVLYRQ

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
20214	50582	Α	20330	4210	5099	AKDQKKHRKKNSGPKAAKKK
						KRLLQDLQLGD\EEDAWKRNP
l						KAF\AFQSAVWMARSFHRTQD
						LKTKKHHIPVVD\RTPLEPPPI\V
		1				VVVMGPPKVGKSTLI*CLI\RNF
		l				TRQKLTEI\RGPVTIVSGKKLRL\
	1	1				THDCGCDINMMIDLG\EVADLV
		1				LMLIDASFGFEMETFEFLNICQV
					HGFPKIMGVLTHLDSFKHNKQL	
					KKTKKRLKHRFWTEVYPGAKL	
	}					FYLSGMVHGEYQNQEIHNLGH
						FITVMKFRPLTW
20215	50583	Α	20331	56	467	
20216	50584	A	20332	282	452	
20217	50585	Α	20333	1	1356	
20218	50586	Α	20334	80	1096	GLGVRVLRCPGVYRGPCTRAA
						YLGWLWTTLSPYCCLRSADMN
	i					PIVLVHGGGAGPISKDRKERVH
						HGMVRATTVGYGILREGGSAV
	1					DAVQGAVVALEDDPEFNAGCG
						SVLNTNGEVEMDASIMDGKDL
	1					SAGAVSAVQCIANPIKLARLVM
						ENFPHCFLTDQGAAHFAGAMG
				I		VPEIPGKKLVTERNKKRLEKEK
						HEKGAHKTDCQKNLGTVGAV
						ALDCKGNVAYATSTGGIVNKM
		1				VGRVGDSPSLGAGGYADHDF*
	1	1				AVSTTGHGE\SFLKVNLARLTLF
l						HIEQGKTLEEAADPIG/CG*MKS
1						RVKGLGGLIVVSKTGDWVAK
						WTSTSMPWAAAKDGKLPLRN
20219	50587	Α	20335	1	1416	
20220	50588	Α	20336	3	277	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20221	50589	A	20337	235	2811	VKMEAPLRPAADILRRNPQQD
20221	30369	^	20337	233	2011	YELVQRVGSGTYGDVYKARNV
				i		HTGELAAVKIIKLEPGDDFSLIQ
1			İ	i		QEIFMVKECKHCNIVAYFGSYL
			İ			SREKLWICMEYCGGGSLQDIYH
1						VTGPLSELQIAYVCRETLQGLA
						YLHTKGKMHRDIKGANILLTD
1				i		HGDVKLADFGVAAKITATIAKR
				i		KSFIGTPYWMAPEVAAVEKNG
1				i		GYNOLCDIWAVGITAIELGELO
				1		PPMFDLHPMRALFLMSKSNFOP
1				1		PKLKDKTKWSSTFHNFVKIALT
				1		KNPKKRPTCLKDF*HHTF\VAO
				1		PGLSRALAVELLDKVNNPDNH
1				!		AHYTEADDDDFEPHAIRHTIRS
1						TNRNARAERTASEINFDKLOFE
1						PPLRKETEARDEMGLSSDPNFM
1					i	LQWNPFV*WWQITGKSTSKR\A
				1	i	IPPPLPPKPRISSYPEDNFPDEEK
				1		ASTIKHCPDSESRAPQILRRQSS
						PSCGPVAETSSIGNGDGISKLMS
						ENTEGSAQAPQLPRKNDKRDFP
						KPAINGLPPTPKVLMGACFSKV
					ŀ	FDGCPLKINCATSWIHPDTKDO
1						YIIFGTEDGIYTLNLNELHEATM
			1			EQLFPRKCTWLYVINNTLMSLS
						EGKTFOLYSHNLIALFEHAKKP
			İ	1		GLGCPIFOTHRFPDRILPRKFAL
1				1		TTKIPDTKGCHK\CCIVRNPYTG
						HKYLCGALQSGIVLLQWYEPM
1				1		QKFMLIKHFDFPLPSPLNVFEM
				1		LVIPEQEYPMVCVAISKGTESN
20222	50590	С	20338	365	389	
20223	50591	Α	20339	1	350	FDVTELCGQWLSRGGEIEGFRL
				1		SAHCSCDSRDNTLQVDINGFTT
				1		GRRGDLATIHGMNRPFLLLMA
1				1		TPLERAQHLQSS/RAPCCVPQAL
1				1		EPLPIVYYVGRKPKVEQLSNMI
				1		VRSCKCS
20224	50592	Α	20340	1	708	
20225	50593	В	20341	229	1249	
20226	50594	В	20342	49	375	
20227	50595	A	20343	42	305	GARAHAPVLVQEEDLHGPHPL
				l		RPERL/PSVPSGRSSPPASR/PVG
1				1		PGG/DQLRPSPDRQQQVSGME
				l		WC/PWSGRSPGLSPTVGPRGGC
		_				HPTST
20228	50596	В	20344	8	1990	
20229	50597	Α	20345	1	1512	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X-Unknown,
NO:	of peptide	hod	in USSN	location of first		*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
20230	50598	Α	20346	1	1663	SGRDRRGRAWRKRNREPPTRG
]						RSPDPOGPSARPLPSLGARISAA
						DRLSGLAARLIGNSRPVAGANA
						GVGPDLSHAGLVPTCARRLRR
						KNGLGRRRRRPPPSPPRPSLESS
			ŀ			SRLTTLGTSQPLKFNFFPCDLRI
ļ						FQTFNC\WGI\PVL*AKHR\ADR
						MRRFGRPF*TQESFDLALLEEV
			į .			WSEHDFQYLRQKLSPTYPAAH
						HFRSGIIGSGLCVFSKHPIQELT
						QHIYTLNGYPYMIHHGDWFSG
		l	l			KAVGLLVLHLNGMELNAYVTH
		i				LHAEYNROKDIYLTHLVG\QA
		l				WELAQFIHHTSKKADVVLLCG
		l				DLNMHPEDI.GCCLLKEWTGLH
						DAYLETRDFKGSEEGNTMVPK
1						NCYVSQQELKPFPFGVRIDYVL
l		1	l			YKAVSGFYISCKSFETTTGFDPH
		1				SGTPLSDHEALMATLFVRHSPP
		1				QQNPSSTHGP\AERSPL/MCVCL
1		1				KEALDGSLGLGMÁ\QARWWA\
1		1				TFA\SYVIGLGL\LLLALLCVLA
1		l				AGGGAGEAAILLWTPSVGLVL
		l				WAGAFYLFHVQEVNGLYRAQ
1]			}	AELQHVLGRAREAQDLGPEPQ
		1		1	1	LYALL\LGQQEGDRTKEQ
20231	50599	Α	20347	175	544	RLRCQKGIPPSLRGRAWQYLSG
					!	GKVKLQQNPGKFDQ\LDMSPG
		1				DPTWLDVIERDLHRQFP\FHEM
		1			İ	FVS/RGGH/GQQDLFRVLDAYT
		1				LYRPEGSYCKTQAPIAAVLLMH
		l				MP\AEQAFWCLVQICEKYL
20232	50600	Α	20348	1	434	CAAGIRHELRRRARLGWRTAT
		l				ERMGRACPRPGKACREPGRA*
1		1	l	1	1	ARALTPQPPTNSALSGLTRRPT
						ASPS\PHRQVRLDRGLAGRQGR
l		1				AGGSTPGGAEAEGVQVAGHAQ
1		1				AMVVAAARDACPPQHVPPKDS
L						APKDSAPQDLAPQVSAH
20233	50601	Α	20349	3	510	

SEQ ID	SEQ ID NO: of peptide	Met hod	SEQ ID NO: in USSN	Nucleotide location of first	Nucleotide location of last codon for last amino acid	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
	sequence	liou.	09/540,217	eodon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
20234	50602	A	20350	1	1669	MAKSNGENGPRAPAAGESLSG
						TRESLAQGPDAATTDELSSLGS
						DSEANGFAERRIDKFGFIVGSQ
1				1		GAEGASILGQTVPSPHGRVGEG
		İ				PPIRSYTASSTGTGNRLEEVPLE
						VLRQRESKWLDMLNNWDKW
1						MAKKHKKIRLRCQKGIPPSLRG
l						RAWQYLSGGKVKLQQNPGKF
1						DELDMSPGDPKWLDVIERDLH
1						RQFPFHEMFVSRGGHGQQDLF
		ļ				RVLKAYTLYRPEEGYCQAQAPI
		l				AAVLLMHMPAEQAFWCLVQI
20235	50603	Α	20351	1	243	
20236	50604	A	20352	70	382	
20237	50605	A	20353	2	322	
20238	50606	Α	20354	86	215	
20239	50607	В	20355	1	735	
20240	50608	Α	20356	92	1104	MSSPQAPEDGQGCGDRGA\PPG
						DLRSVLVTTVLNLEPLDEDLFR
1						GRHYWVPAKRLFGGQ\IVGQA
1		l				M\VAAATSV\SEDVHV\HS\LHC
	1	1		i		YF/VFRAGDP/KSLPVLYQVERT
		l		l		RTGVEA\FRLRSVKGP*NMGKPI
			i			F\ICQ\ASFQQA\QPSP\MQHQFS
						MP/TLLPTTEELV*IVRTLFDQY
1						LRDPNLQKRYPLALNRI\AAQE
						VPIEIKPVNPSPLRPAAEEWEPK
				1		QMFW\VRARGY\IGKSTPWKM\
	Ì	1				HC\CV\AAYIS\DYAFLGTALAA
		1				LTQWPSTRCHFHGPPLD/HNPM
		1				W\FHAPFRAD\HWMLYECESPW
						AGG\SRGL\VHGRLWRQDGVLA
						VTCAQEGVIRVKPQVSESKL
20241	50609	Α	20357	3	1106	LRRQLQPLLPLPKSPPRSGAHL
						GSLFRSPQPSYPVRPPGSAGTPP
Į.						PACLPPAQPCQGSPAMNLFRFL
1						GDLSHLLAIILLLKIWKSRSCA
					l	GISGKSQVLFAVVFTARYL\DLF
1			i			TNYISLYNTCMNV\VYIACSFTT
1						VWLIY\TKFK\ATYDG\NH\DTFR
1						SGSSRVV/VPQAILGVSWSNHD
		l				FTPL\EILW\TFSIYLGVSGPSLPQ
			l	1		LFHG*GKTGRGRETHSPATYLF
	1					CAKAFNPHALSLSNW\IWR\YHF
	1			l		\EGFFD\LIAIVAGPGPROSSYCD
1	1		l	l		FF\YLYYSPKFLKGERKFEFCRH
	1					RPRFLSISSPRAAAGRAGGKAG
	1	l	1			RKMKSFSHPRGDFFKNPTSLCS
		l				PIPPSCPGLKGNSARIPGLWGAO
		l		1		RLGAVCSFLAF
			L	L	L	KLUAYCSFLAF

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20242	50610	A	20358	356	1356	ITTTSGRTRKMWRPEGT*PP/A NCSANINLTHQPWFQVLEPQFR QFLFYRHCRYFPMLLNHPEKCR GDVYLLVVVKSVITQHDRREAI RQTWARAAVRGWGPSAVRTLF LGTASKGEERTHYQQLLAYE DALYGDILQWGFLDTFFNLTLK EIHFLKWLDIYCPHFFIKCID DVFVPFTNLLEFLADROPGENL
						FVGDVLQHARPIRRKDNKYYIP GALYGKASYPPYAGGGGELMA GSLARRLHHACDTLELLYPIDDV FLGMCLEVLGVQPTAHEGFKTF GISRNINSRMNKEPCFFRAMLV VHKLLPPELLAMWGLVHSNLT CSRKLQVL
20243	50611	A	20359	221	1579	CCVDEGLEPTCFERTEDIGGVW RFKVSEIFLGLEQVVLLFQGESQ LMSCFSDFMPEDFPNFLHNSK LLEYFRIFAKKFDLLKYIGFQVL YFWNGGFLGSSAHI*IENTQSN GKEQSAVFDAVMVCSGHHILP HIPLKSFPGETRWDSQLFVGF GVLYM*FEGKRIL VIGMGNSGS DIA VELSKNAAQV*CSLLTMYL EGRKWGCHTGDWDSVFHTRFR SMLRNVLPRTAVKWMIEQQM NRWFNHENYGLEPONK*SYFA FLMVYSLVSKVY*RCLKVKST VKELTETSAHFEDGTVEENIDVII FATGYSFSFFFLEDSLVKVENN MVSLYKYIFPSHLDKSTLACIG LIQPLGSIFPTAELQARWYTRVF KGLGSLPSERTMMMDIIKRNEK RIDLFGESQSQTLQTNYVDVLD ELALEIGAKPDFCSL
20244	50612	Α	20360	3	200	VICETI GI CIGI
20245	50613	Α	20361	292	570	
20246	50614	А	20362	2	511	RLRSGPLRLPGADSGSGPKAVC SPPFIVAPTGRGYCGDHESSFGA MEEPGVTPQPYLGLLLEELRRV SPGAMSVTWP/EGSREPPGEGSS RPALGSKPPWSEVPKPVLVCCP APARIFEAVVRLVGRLSGFCVM EEDLGL WEGREKKLALMLSGLI EEKSKLLEKFSLVQKE

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide		Amino acid sequence (X=Unknown,
NO:	of peptide	hed	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
	ŀ			sequence		
20247	50615	Α	20363	2	3262	FLSDLEENFENNIFSFQVCDVVL
				-		NHAPDFRRVYLPYVTNQTYQE
				ļ		RTFQSLMNSNSNFREVLEKLES
				ľ	i	DPVCQRLSLKSFLILPFQRITRL
						KLLLQNILKRTQPGSSEEAEAT
	1			l		KAHHALEQLIRDCNNNVQSMR
1		l		l		RTEELIYLSQKIEFECKIFPLISQS
				1		RWLVKSGELTALEFSASPGLRR
ļ			İ	!		KLNTRPVHLHLFNDCLLLSRPR
						ESVTGVAGQGTRGEGDEERGG
i					İ	SEREREGSEKLRWISALAMPRE
		ŀ				ELDLLECYTAE
20248	50616	Α	20364	2	2339	TGRGYCGDHESSFGAMEEPGA
						TPQPYLGLLLEELRRVVAALPE
						GMRPDSNLYGFPWELVICAAV
İ						VGFFAVLFFLWRSFRSVRSRLY
					1	VGREKKLALMLSGLIEEKSKLL
		i			!	EKFSLVQKEYEGYEVESSLKDA
1		ľ				SFEKEATEAQSLEATCEKLNRS
l						NSELEDEILCLEKELKEEKSKHS
l						EQDELMADISKRIQSLEDESKSL
					1	KSQVAEAKMTFQIFQMNEERL
ŀ						KIAIKDALNENSQLQESQKQLL
l						QEAEVWKEQVSELNKQKVTFE
İ	i					DSKVHAEQVLNDKESHIKTLTE
1						RLLKMKDWAAMLGEDITDDD
ł						NLELEMNSESENGAYLDNPPK
					l	GALKKLIHAAKLNASLKTLEGE
					i	RNQIYIQLSEVDKTKEELTEHIK
						NLQTQQASLQSENTHFENENQ
ŀ				ł		KLQQKLKVMTELYQENEMKL
						HRKLTVEENYRLEKEEKLSKV
		i				DEKISHATEELETYRKRAKDLE
						EELERTIHSYQGQIISHEKKAHD NWLAARNAERNLNDLRKENA
			1			
1				l		HNRQKLTETELKFELLEKDPYA LDVPNTAFGRGSRGPGNPLDH
1						OITNERGESSCDRLTDPHRAPS
	1	1		l		DTGSLSPPWDQDRRMMFPPPG
						QSYPDSALPPQRQDRFCSNSGR
		1		I		LSGPAELRSFNMPSLDKMDGS
		1		[MPSEMESSRNDTKDDLGNLNV
	1	1		l		PDSSFP\AKKEATGPGFVPPPLA
						PVRGPLFPVDARGPFLRRGPPFP
	l				l	PVKGPLFFVDAKGPFLKKGPFFP

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20249	50617	Α	20365	160	2810	GLRVPLSPSSPRSRLRSGPLRLP
						GADSGSGPKAVCSPPFIVAPTG
						RGYCGDHESSFGAMEEPGATP
						QPYLGLLLEELRRVVAALPEG
						MRPDSNLYGFPWELVICAAVV
				1		GFFAVLFFLWRSFRSVRSRLYV
						GREKKLALMLSGLIEEKSKLLE
ļ				ļ		KFSLVQKEYEGYEVESSLKDAS
l		l				FEKEATEAQSLEATCEKLNRSN
						SELEDEILCLEKELKEEKSKHSE
		1				QDELMADISKRIQSLEDESKSL
		1				KSQVAEAKMTFQIFPMNEERLK
						IAIKDALNENSQLQESQKQLLQ
						EAEVWKEQVSELNKQKVTFED
				İ		SKVHAEQVLNDKESHIKTLTER
l				l	1	LLKMKDWAAMLGEDITDDDN
						LELEMNSESENGAYLDNPPKG
		(1		ALKKLIHAAKLNASLKTLEGER
		1				NQIYIQLSEVDKTKEELTEHIKN
	i					LQTEQASLQSENTHFENENQKL
				1		QQKLKVMTELYQENEMKLHR
						KLTVEENYRLEKEEKLSKVDER
					İ	ISHATEELETYRKRAKDLEEEL
						ERTIHSYQGQIISHEKKAHDNW
		1				LAARNAERNLNDLRKENAHNR
		l				QKLTETELKFEL\LEEDPYALD\
		1				PNTAFGREHSPYGPSPLGWPSS
		l				ETRAFLSPPTLLEGPLTLSPLLP
						GGGGRGSRGPGNPLDHQITNER
						GESSCDRLTDPHRALSDTGFLS
						PPWDQDRRMMFPPPGQSYPDS
						ALPPQRQDRFCSNSGRLSGPAE
20250	50618	Α	20366	131	461	

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20251	50619	A	20367		1761	MARGYGATVSLVLLCIGILALA VIVLAVVLSKHQAPCGPQAFAH AAVAADSKVCSDIGRVAILQQQ GSPVDASIAALVCTSVVNPQSM (LGGGVIFITVNVTTGKVEVIN ARETVPASHAPSLLDQCAQALP LGTGAQWIGVPGELRGYAEAH RRHGRLPWAQLFQFTIALLRGG HVEAPVLSRFLHNSILRPSLQAS TIRQLFFNGTPLPROPDLPWP ALATTLETVATEGVEVFYTGRL QMLVEDIAKEGSQLTLQL KTQPEVVDALEVPLGDYTLYSP PPPAGGAILSFILNVLRGFNFST ESMARPEGRAVNYJHILVETLK FARGGRWRLGDPRSHPKLQNA SRDLLGGTLAQLIRQQIDGRQD HQLSHYSLAEAWGHGTGTSHV SVLGEDGSAVAATSTINTPFGA WYVSPRTGIILNNELLDLCERC PRGSGTTFSTVSGDRVGAPGR CWPPVPGEPSSSMPESILINKA QGSNLVGCAGGELISAVAQAI MSKLWLGCAGGELISAVAQAI MSKLWLGFDLRAAIAPHLHVN NKGCVEYEPNFSQEVGRGLQD RGQNQTQRFFFLNVQAVSQE GACVYAVSQLRSGGRAGQ

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
1	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20252	50620	IA	20368	341	2239	LCASSCPFICPPIRPSVCPPAAPL
20232	30020	n	20300	541	2237	LLGCRAMARGYGATVSLVLLG
		İ			1	LGLALAVIVLAVVLSRHQAPCG
						PQAFAHAAVAADSKVCSDIGR
		1				AILQQQGSPVDATIAALVCTSV
		1			i	VNPOSMGLGGGVIFTIYNVTTG
		1				AQWIGVPGELRGYAEAHRRHG
		İ				
		1				RLPWAQLFQPTIALLRGGHVVA
						PVLSRFLHNSILRPSLQASTLRQ
		1				LFFNGTEPLRPQDPLPWPALAT
1				i		TLETVATEGVEVFYTGRLGQM
						LVEDIAKEGSQLTLQDLAKFQP
						EVVDALEVPLGDYTLYSPPPPA
		l				GGAILSFILNVLRGFNFSTESMA
		l	l			RPEGRVNVYHHLVETLKFAKG
		1				QRWRLGDPRSHPKLQNASRDL
1						LGETLAQLIRQQIDGRGDHQLS
						HYSLAEAWGHGTGTSHVSVLG
					ł	EDGSAVAATSTIYTPFGAMVYS
						PRTGIILNNELLDLCERCPRGSG
		l				TTPSPV/SGDRVGGAPGRCWPP
						VPGERSPSSMVPSILINKAQGSK
1						LVIGGAGGELIISAVAQAIMSKL
		1		I	1	WLGFDLRAAIAAPILHVNSKGC
1						VEYEPNFS/QETVSCFVALAVL
		1		ļ		KLLASSDPATLAPKWLRL*EVQ
				Į.		RGLQD\RGQNPDPEGPFFLDVV
				1		PACV/SQEGACV*RPSRT*RKSG
						EAAGLLKTLLCPELEVLAPP
20253	50621	Α	20369	203	1518	RCYLQFLALLLTSTSARAAAI
1		ļ.		1		AAAEEPAGSPSVMTRAGDHNR
1		į.				QRGCCGSLADYLSSAKFHL*LG
1				1		HSLSTWGDRMWHFAVSVFLVE
1						LYGNSLLLTAVYGLVVAGSVL
	1			1		VLGAIIGDWVDKNARLKVAQT
				I		SLVVQNVSVILCGIILMMVFLH
		l		l		KHELLTMYHGWVLTSCYILIITI
		l			1	ANIANLASTATAITIQRDWIVV
						VAGEDRSKLANMNATIRRIDQL
				ļ.		TNILAPMAVGQIMTFGSPVIGC
		1			1	GFISGWNLVSMCVEYVLLWKV
		1				YQKTPALAVKAGLKEEETELK
		1				QLNLHKDTEPKPLEGTHLMGV
	1	1		I		KDSNIHELEHEQEPTCASQMAE
		1		I		PFRTFRDGWVSYYNQPVF/LGW
				I		HGSCFPLYDCPGL*LHHHRVRL
1					1	HSGTEWFHPQYFDGSISYNWN
		1				NGNCSFYLATSKMWFGSDRSD
				I	1	LRIGTAFLFDLVCDLCIHAWKP
20254	50622	A	20370	1	497	- I Di DD I DD III III III
20255	50623	Ā	20370	i	1575	
20233	150025	1/1	120371	ı .	1.575	

SEQ ID	SEQ ID NO:	Mct	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20256	50624	Α	20372	251	1351	SLKSTDGVKCGLSINIFHKRREN
20230	30624	ΙΑ.	20372	231	1331	ILFGMGNPLLDISAVVDKDFLD
1						
l			1		ŀ	KYSLKPNDQILAEDKHKELFDE
	l				İ	LVKKFKVEYHAGGSTQNSIKV
1	1					AQWMIQQPHKAATFFGCIGIDK
						FGEILKRKAAEAHVDAHYYEQ
				1		NEQPTGTCAACITGDNRSLIAN
						LAAANCYKKEKHLDLEKNWM
						LVEKARVCYIAGFFLHVSPESV
ļ					l	LKVAHHASENNRIFTLNLSAPFI
				1		SQFYKESLMKVMPYVDILFGK*
					1	DRSWPTFAREQGFETKDIKEIA
ŀ				•	l	QKDTSPCPKMNSKGQRIRDLHP
						KGRDDT\IMATESEVTAFAGLGI
l				1	1	KTQKEI\IDTNEAGDAFVGGFLS
ł						QL\VSDKPLTECIRAGHYAASIII
						RRTGCTFPEKPDFH
20257	50625	A	20373	I	201	
20258	50626	Α	20374	15	304	
20259	50627	Α	20375	51	283	TWVKEAQNDGLCVCYIFIFNCQ
1				ŀ		MTGLDIEKD\QIIEMACLITDSD
ł	1		ł			LNILAEVRDAHVIQSYFLKGTG
						NITIIFSSFFI
20260	50628	Α	20376	2	520	QRRLRDWGRGCWSRVMLGGS
1	1				l	LGSRLLRGVGGSHGRFGARGV
			l	ŀ	1	REGGAAMAAGESMAQRMVW
			l		ŀ	VDLEMTGLDIEKDQIIEMACLIT
						DSDLNILAE/GNSVHEDKKFLD
1						KYMPQFMKHLHYRIIDVSTVKE
						LCRRWYPEEYEFAPKKAASHR
					1	ALDDISESIKELQFYRNNIFKKK
20261	50629	A	20377	2	206	EFGTRRHVPPCLINFFKDQGSP*
						LARLVSNSWPOVIHPPWPPTVL
	1	l		1	1	GLRGVGHCPWPRLGNSSWVW
	1	l		l		ggн
			L	L	L	22

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	eodon for last amino acid	*=Stop eodon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
ĺ				sequence		
20262	50630	A	20378	11	1401	MRSQKTSLYFSLEAKFYCSLRN
						ERIASCDIINDAGIQTKTLMKRS
			1			HVAYALKKPVEOGDSFELESK
			ĺ			GFMAITIAVCIEQNLRHSSSLFIC
						MSSTGQSGTTNNASSLIPSYVFT
						PPHFNLLDKOGRTAGKSHCGE
						DRKEHNNACHOEEEAPDVNPL
						HGLOASGSPGKTORIKSOALEG
						TRLYSHSEETRSGLIRLLRLROR
						RLRDWGRGCWSRDMLGGSLG
			İ			SR\LLRGVGGSHGRFGARGVRK
				1		RGAAMAA\GESMAQRMVWVD
				i		LEITGLDI*KVQIIEMACLITDSD
						LIILAEGPNLII\KOPDELLDSMS\
						DWCK\EHHGKSGLTKAVKEST
ĺ						NYHCQQAE\YEFPALWYDQPD
						SLPGLCPTCQEIKFHE\DKKFP*
Ì			i			ONTCPOFMKHLHYRII\DVSHC*
		1	İ	l		KELCOTAGYPEEYEFA\PKKAA
		1	İ	l		FSIGPLDD\ISENL\KKVPFFPEN
		l		l		NHLPRKKIRMKRKEGKL*KMG
						ENEKTVS
20263	50631	С	20379	180	248	
20264	50632	Λ	20380	455	1133	GIEGWRGEADTLPAEGQDGGR
				l		RVSKGDIFSGGAETAQGWGVM
				l		GPFQAAPSKRAGREHRGGQRR
ĺ						VQHVGWYPRPGSDKGHGKGT
						QDSRVPQLPPHPPPIHLVSRHRG
				l		KLRHGFLRPMPEPRGLESGKTG
				l		NCFGELQH/RTSP*GRSGPREGG
						PRNIAQQGGCRGSACGRRSH\E
ł				1		ALRPRVWCGEGPQWTW\CAVC
		l				P\NRSAPGAGLAD\RQHPGESRA
		<u>L</u>				WGETRLGEAGGAE
20265	50633	A	20381	214	412	
20266	50634	A	20382	3	257	PATVIITVNTTWSAALISRESAL
1			l	ĺ		RSFPVKAAALSPSREGGSVTAT
1		l		ŀ		PNVRSMTSAVPIMRVSVQ\SKR
						*PEEQN*QETYPQTTSCR
20267	50635	Α	20383	I	1569	
20268	50636	В	20384	15	1744	

SEO ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
20269	50637	A	20385	2	7205	QASGSCWSSPFFSASTPSAAAT
				1		GVPGPTDMAAVLQQVLERTEL
		l	1			NKLPKSVONKLEKFLADOOSEI
ļ						DGLKGRHEKFKVESEQQYFEIE
						KRLSHSQERLVNETRECQSLRL
		l				ELEKLNNQLKALTEKNKELEIA
	i	l				QDRNIAIQSQFTRTKEELEAEKR
İ		l				DLIRTNERLSQELEYLTEDVKR
i				1		LNEKLKESNTTKGELQLKLDEL
						QASDVSVKYREKRLEQEKELL
						HSQNTWLNTELKTKTDELLAL
						GREKGNEILELKCNL
20270	50638	A	20386	120	7384	GWTRFPRVPPRESPAGGRARAT
						ERGDRGGGPGVWVLLVFAFLL
						RFYPVGRCHWGPWAPPTWAA
		l				VLQQVL\ERTELNKL\PKSVQNK
						LEKFLADQQ\SEIDGP*RGGHGE
				l		I*RWESEQQYFEIEKRLSHSQER
						LVNETRECQSLRLELEKLNNQL
			l	İ		KA\LPEKNKELEIA\QDRNIA\IQ
				ŀ		SQFTRTKEELEAEKRDLIRT\NE
		l	l			RLSQELEYLTEDVKRLNEKLKE
		1				SNTTKGELQLKLDELQASDVSV
						KYREKRLEQE
20271	50639	A	20387	2	433	
20272	50640	Α	20388	2	181	GFRRVSLEF*FPGVRWGMRKL
				l		GAPDLAPFSQM*SGGRAPCVAS
						*PPCRGLRLMRTGSRR

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop eodon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20273	50641	Α	20389	1	2422	MAGALAGLAAGLQVPRVAPSP
				1		DSDSDTDSEDPSLRRSAGGLLR
				İ		SQVIHSGHFMVSSPHSDSLPRRF
					1	DOEGSVGPSDFGPRSIDPTLTRL
		1				FECLSLAYSGKLVSPKWKNFK
						GLKLLCRDKIRLNNAIWRAWYI
						QYVKRRKSPVCGFVTPLQGPEA
						DAHRKPEAVVLEGNYWKRRIE
		l			i	VVMREYHKWRIYYKKRVSGG
						GPGRPQSFPPAAAGYRPPRKIPG
						KGILTPELAPLGPSIQSRADSAT
						VWPQRLLAASLPRGRLRKPSRE
				l	1	DDLLAPKQAEGRWPPPEQWCK
						QLFSSVVPVLLGDPEEEPGGRQ
İ						LLDLNCFLSDISDTLFTMTQSGP
		1	İ			SPLQLPPEDAYVGNADMIQPDL
				1		TPLQPSLDDFMDISDFFTNSRLP
				1		QPPMPSNFPEPPSFSPVVDSLFSS
				1		GTLGPEVPPASSAMTHLSGHSR
		1				LQARNSCPGPLDSSAFLSSDFLL
						PEDPKPRLPPPPVPPPLLHYPPP
						AKQETVPEFPCTFLPPTPAPTPP
				1		RPPPGPATLAPSRPLLVPKAERL
				1		SPPAPSGSERRLSGDLSSMPGPG
				1		TLSVRVSPPQPILSRGRPDSNKA
						LLGSFLGSPNSLLPETENRRITHI
	ŀ					SAEQ\KRRFNIKLGFDTLHGLVS
					İ	TLSAQPSLKVSKATTLQKTAEY
				ı		ILML\QQERAGLQEEAQQLR\DE
						IEEL\NAAINLCQQQLPATGVPI\
				1		THQRFDQMRDMFD\DYVRTRT
						LHNW/KFWVVSSLKPMAGGLQ
20274	50642	Α	20390	315	387	
20275	50643	Α	20391	570	1017	FCLHILQVPHTLAGHSPCAHG/R
1						PPLPRF/HDRLPEEIQQQIVRETF
1						HLVLKRDDNICNFLEGGSLIGG
1					1	SDYKLIYRHYATLYFVFCVDSS
1	l				1	ESELGILDLIQLEQFKKDNEETG
1					l	FGSGTRALEQALEKTKANIKW
		Ļ_				VKENKEVVLQWFTENSK
20276	50644	A	20392	I	1128	
20277	50645	В	20393	62	130	

SEO ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
20278	50646	A	20394	99	718	ENRGWQSMIQAILVVNNHGKP
						RLVRF\YQRFPEE\IQQQIVRETF
ł						HILVLKRDDNI\CNFLEGGS/L*L
		ı		1		GGSDYK\LIYRHYATLYFVFCV
	Į.	1		[DSSESELGI\LDLIQVFVGNSWIS
		1				CFENVV*IWI*TFH\MDK\VHYIL
		1				QEVVMGG\MVLETNMNEIVAQ
		1		ì		IEAPNRLEKSEG\GLSAAP\ARA
		1		Ì		VSAVKNINLPEIPRNINIGDLNIK
						VPNLSQFV
20279	50647	A	20395	3	370	SLHLAAILGETSTVEKL/YAAGA
		1				GLCVAERRGHTA/LHLACRVG
		1				AHACARAL/LQPRPRRPREAPD
		1				TYLA/QGPDRTPDTNHTPVAL/Y
		1		l		PDSDLEKEEEESHTPLHVAVIH
		1				K/DVEMVRLLRDAGADLDK
20280	50648	Λ	20396	2	1097	SRQSPATGGRLRWAPDAALAM
		1		ĺ		AVVACLGQAADSDKWGDSRLS
		1				SLGPDAAAPGGPGLGAELGPGL
		1				SWAPLVFGYVTEDGDT\FSAGT
		1				EYMDLQNDLRQVSHEGWCRA
1						WGPGFPV*LPTACPLLLQTALH
		1		į .		LAAILGETSTVEKLYAAGAGLC
	1	1				VAERRGHTALHLACRVGAHAC
		1				ARALLQPRPRRPREAPDTYLAQ
	1	1		l		GPDRTPDTNHTPVALYPDSDLE
	1	l				KEEEESEEDWKLQLEVENYEG
	i	1				HTPLHVAVIHKDVEMVRLLRD
	1	ľ		İ		AGA\DLDKPEPTCGRSPLHLAV
	1	l				EGPRQADVLELL\LRAGANP\A
1		l				A\RMYGGRTP\LGSAMLRPNP\I
		l				LAR\LLRA\HGAPEPEGEDEKSG
		l				P\CSSSSDSDSRLSPSAWSPLPPG
20281	50649	Α	20397	47	478	LRLRKLKAIMLAFGRGKTRNSE
		l				ESSDSQEVIWKDTWMFTALGH
l		l		l		CGISMFGLWDRELTLTNYELFIS
1						SSPTPS*VPQRLCYVVSTFLMYL
				l		SLDHLYTGEMKAFLHVLDTQS
				1		VNSDFAFFVRLSFQYFYKLLCV
		ı		l		LWOGTVNKEFI

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nuclcotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20282	50650	A	20398	1	1992	METFVIGWQPAVTVWTIGVAP
1						PPTLEITSQHEIWVAQHPNYIIS
		ļ				VKQESPAPMPWTAVALDSHRS
		1				MNTIVNCAREGSTLHAPYESLM
						PDDLRWNSFILKSSPSPHSRSME
						KLSSMKLVPGAKYIRDHCLVK
						EALTIHKSPILLAAIDLLGNLSG
						FTDYQSYVIHGCLENNPTLERSI
						ALFNGISKWVQLMVLSKPTPQ
						QRAEVITKFINVAKGATAELNL
				ŀ		WQHPKIIMLSQVVPGVFSQEHS
						LIRSLHANLHFTVCFPEDPLAM
		1				VAGMVQESTCPCEILQLPTTGQ
				ļ.		LANWNEMTELVSSNGNYCNYR
				ŀ		KPFPTCDGLKIPILGVHLKDWIA
		1		ŀ		VHVNFPDWTEEIKVNIVKMHQ
						LSVTLSELVSLQNASHHLEPNM
Ì		1		l		DLINLLTV/DGLQPADLMHAISL
				i .		FRTSHRPQGLFL*IKGTSPAEHS
		l	1	l		DRSCQHFRV*KCSSWESWHGG/
l			l	1		WLSLEE*MSSFLLRSF*KI/YCSR
1				l		KNVACQTRAVCTNLDALLSSS
1		ł		l		QMSNNHHPFSLPAQDEVFEFPG
			1	l		VTAGHRDLDSRAITLVTGSSRK
						ISVRLQRATTSQATQTEPVWSE
		ŀ		1	i	AGWGDSGSHTFPKMKSKFHDK
1		1		l		AAKDKGFAKWENEKPRVHAG
1					1	VDVVDRGTEFELDQDEGEETR
			l	l		QDGEPAEAVSVGAVAAPGMSE
			l	l		KELLQVDGRTPTRVLRMADLV
		L				GISEFRGEPAFV
20283	50651	Α	20400	1	417	
20284	50652	Α	20401	2	94	

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20285	50653	A	20402	190	2189	AFCPAGTRSAPCPRPRTMTMTL
						HTKASGMALLHQIQGNELEPLN
i		1				RPOLKIPLERPLGEVYLDSSKPA
1						VYNYPEGAAYEFNAAAAANA
		1				OVYGOTGLPYGPGSEAAAFGS
					1	NGLGGFPPLNSVSPSPLMLLHPF
ļ	į	l				PQLSPFLQPHGQQVPYYLENEP
l		1		l		SGYTVREAGPPAFYRPNSDNRR
		1				QGGRERLASTNDKGSMAMESA
ŀ					1	KETRYCAVCNDYASGYHYGV
ŀ		l				WSCEGCKAFFKRSIQELPTLC*I
					ł	GWYWYQNRDIDQWNRTEPSEI
						IPHIYNHLIFDKRDKNKKWGKD
1		l			ŀ	SLFNK*CWENWLAICRKLKLD
						HFLTPYTKINSRWIKDLNVRTK
ļ		l				TIKTLEENLGNTIQDIGMGKDF
						MSKTPKAMATKAKIDKWDLIK
					ì	LKSFCSLLGYLKTENTAKETTIR
						LNROPTEWEKIFAIYSSDKGLIS
						RIYKELKOIYKKK/GNPINKWV
						KDMNRHFSKEDIYAANRHMKK
						CSSSLAIREMQIKTTMRYHLTP
					1	VRMVIIRKSGNDRCWRGCGEIG
1						TLLHCWWDCKLVOPLWKTVW
						RFLRDLQLEIPFDPAIPLLGIYPK
				i		DYKSCCYKDTCTRMFIAALFTI
1	1					AKTWNOPKYPTTIG*IKKMWHI
1						YTMEYYAAIKKDEFI/SLVGTW
1						MKLETIILSKLTOEOKTKHHMF
1	l .					SFITGSRTMRTHGCREGNITHW
						GLLRDSVNMVTQAH
20286	50654	A	20403	2	907	RVPAMATSSFALPRILGAGARA
				Ī		PSRWLGFLGKATPRPARPSRRT
	1	1				LGSATALMIRESEDSTDFNDKIL
		1				NEPLKHSDFFNVKELFSVRSLF
						DARVHLGHKAGCRHRFMEPYI
		1				FGSRL\DHDIIDL\EQTATHLQLA
		1				LNFTAHMAYRKGIILFISRNRQF
		1				SYLIENMARDCGE\YAHTRYFM
	i					GGMLTNARLLYGPTVRLPDL\II
	1	1	1			FLHTLNNIFEPHVAVRDAAKM
1	1			1		NIPTVGIVDTNCNPCLITYPVPG
						NDDSPLAVHLYCRLFOTAITRA
						KEKROOVEALYRLOGOKEPGD
			1			QGPAHPPGADMSHSL
20287	50655	В	20404	70	1477	QUITALLY C. I.E. MONDE
2020/	120022	10	120704	1,0	11277	L

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide sequence	hod	in USSN 09/540,217	location of first codon for peptide sequence	eodon for last amino acid of peptide sequence	*=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
		Ļ		ļ		
20288	50656	Α	20405	153	688	AHPLLRSSPEETSRSRKPRCATT
		1		1		NGFLRIPEKTTPWSPEVAIHRNR
		1				VITPNKPPTVKSLEKVFC*LDKE AOKEKESOK*KGPVRMPTKTVL
	l	l				, - ·
1						RITT\RKTP\CGE\GSKDRWDRF\ QIEISQSRLH*LCTSPF*DLFKQI
	1					TFHQYLSPGV*GEKSPFADALS
				ŀ		OISIHTIDDOFVKKKKKKKKK
20289	50657	A	20406	26	603	RPRGTLREYKVVGRCPAHSHK
20289	30637	A	20406	26	003	CHTPPL\YR\MRNFAP\N\HVVA
1		1	1	i		KS/RAFWYFVSQLKKDEESLPG
	1					EIVYCGQGV*ESSPCGSKNFGI
		l				WLRY\DSRSG\THN\MYRE*PGP
						*PTAGGCSPSCYPRHGVARHAG
				1	İ	PEAHFHFRFIERLEEI\AGQQNC
1			1		į	RRPGCSKQFPRISRFKFP\LAPPG
			1			SLRRODKPRF\TTKRPNTFF
20290	50658	A	20407	161	418	
20291	50659	Α	20408	1	2580	
20292	50660	Α	20409	3	264	
20293	50661	A	20410	3	302	ALALLSPWVVDGTRHRGAGGG
				1		AHPGGSGRTGAHRGGGRLRHG
		1		i		GLQVPSPAPREGS*GPARNRAQ
	i	1	1	1		RRAVDRTQ*ECSSKEVYT*RLV
		<u>L</u>				PPPPLGHSHSSPE
20294	50662	A	20411	2	415	
20295	50663	С	20412	1	1230	WELLELL ATTOMERS OF THE STATE O
20296	50664	Α	20413	238	1765	VTAYHAATMNEVSVIKEGWLH
1		1		l		KRGEYIKTWRPRYFLLKSDGSF IGYKERPEAPDQTLPPLNNFSV
				l		AECOL\MKTERPRP\NTFVIPCP
1						QLTNIIRGTL/HTLVSPNQRE\EW
		1				NPPYOVVPQOPSRGGPKARTP
		1		1		WNNKCGSPK*LSHD*ENGSGGS
l		1		I		ASHG/RKVTMNDSTYLNLLGK
		1				GTFGKV\ILFRKKATGR*FA\MK
		1	1			VIFRKKVINAKD*VAHNIOPRAG
			1			VLPEHPGNPFLQLR*KYAFPDP
1						TTRPVPL*MEYA\NGGELFF\HL
						S\RERV\FTEERA\RFYGAEIVSA
				1		SEVTWHSRGRGNTRDNOSWKT
			1	1		LMLEOKMAHIK\ITDFGL\CKRG
	1			1		ASSDGAT\MKTFCETP\EYLAHE
					İ	ULEDNDYGRAVDWWGLGVVM
						YEMMCGRLPFYNQDHERLFELI
			1			LMEEIRFPRTLSPEAKSLLAGLL
						*\KDPKQRLG\GGPSDAKEVME
					1	HRFFLSINWQDVVQKKLLPPFK
						PQVTSEVDTRYFDDEFTAQSITI
						TPPDRYDSLGLLEAGPADPASP
			l l			QFSYSASIRE

SEQ ID	SEQ ID NO:					Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion
				sequence		
0297	50665	Α	20414	192	866	LSCRMRMLVLGQNPTLDSID
						GVRSKCRIFNKLRESFHYNSA
	ı					LTISVNMSYNCCSGNFSSRSC
	i					DYLRYPASSRGFSYPSNLVYS
						DLCSPSTCQLGSSLYRGCQEI
						WEPTSCQTSYVEVQAPAKTS
						YRPKNLPCSASPCKTTYS\GS
						FGSSSCRSLGYG*GSCYSVG
						SSGFRSLGYGGCGFPSLGYG
						FCRPTYLASRSCQSSCYRPTC
0298	50666	Α	20415	312	1420	RSHSNAVPSVWNLTLPLDSG
			ł			QSPASTTGPCTNTERSSVPMS
						PPACPTQCVLCSCTEGQIYCO
	i					TTCPEPGCPAPLPLPDSCCQA
			1			DEASEQSDEEDSVQPLHVVR
	1	i				QDPCSSDAGRKRGPGTPAPT
	1					SAPLSFIPRHFRPKGAGSTTV
	Į.					VLKEKHKKACVHGGKTYSH
	1				1	VWHPAFRAFGPLPCILCTCE
					1	RQDCQRVTCPTEYP\C\RHPR
		1			1	WPGKCCKICPEDKADPGHSE
						STRCPKAPGRVLVHTSVSPSI
		1				NLRRFALEHEASDLVEIYLW
	1	1				VKDEET*GSGEVKYLAQGHT
		ł				RIFHLTQIKKVRKQDFPERGT
	1	l				LPTARWPPRRSLERLPSPDPC
		1				GHGQSRQSDQDITKT
0299	50667	Α	20416	17	1008	KSGARSLQPQFLRAPEDGGP
	ı	1				LPNAAMARGPKKHLKRVAA
		1				KHWMLDKLTGVFAPRPSTG
		1				KL\RECLPLIIF\LKDQTLSNAI
	Į.	1				GD\EVKKI\CMQRFIKI\DGKV
						DITYP\AGFMDVI\SIDKTGRE
		i				VL/YLIDTQGVRFCL*HRIYT
						EGQSTSLCKVRKILLWAPKG
					1	HL\VTH\DAR\TIR\YPDP\LIQO
						MNTHSRLI*KTGK\IT*FPSKF
						LVTCVMVT\GGA\NLGRNW\
	1		1			TQQRRSTLGSF*PLVHVK\DA
			1			GNKLLATSDFSNIF/VVIGKG
			1			PW\ISL\PRGKGIPPHHLLEER!
			1	1		RLAAKQSSWVKWGPWVTW
0300	50668	Α	20417	1	1377	
0301	50669	Α	20418	1	2178	
0302	50670	Α	20419	158	250	

SEO ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20303	50671	A	20420	1	860	MDQTVKSLMASEEEYSTKEEK
		1				YEKEMKLLEEKLKEAETRAEF
	i					VERSVAKLEKTTDDLEETLASA
	i	ŀ				KEETWRFIRPGTRPYWNSATCF
	i	ŀ				LLPGHKMAAEVHKLNPNVSEH
		ŀ				DOERWHDAFGNGGADNHSKL
						QASTRRGGPLSQELLQSLAASL
		ŀ				AAGGLTALSAEFTIGKGELMAH
	ł					DVLWGCAPDEYDDLISGTCSHL
	l	ŀ			1	PKGKTHDVLTGSDDGRHSNTS
						LAWGAGVOFNPTESVAIDIAYE
		1				GPGSGDWRTDGFIVGGLFCGV
	1					NMAVKIS\GVLKDGTGKPVON*
	l					TIOLKAKRNSTTVVVNTLASEN
	l					PDEAGRYSMDVEYGQYSVILL
						VEGFPPSHAGTITVYEDSOPGTL
		1				NDFLCAMTES\DARPEALGREG
	l	1				LYWWKEVARNAS\AVGONTA
						AAKKSASDASTSAREAATHAV
					ł	DAGGFKNAQARTSSPDKAGSA
		1				GFKQGFPRGGNGINKRAT*RIK
		1			i	KVACR*SLMASEEEYSTKEEKY
					•	EKEMKLLEEKLKEAETRAEFVE
		1				RSVAKLEKTTDDLEETLASAKE
						ETWRFIRPGTRPY WNSATCFLL
		ı				PGHKMAAEVHKLNPNVSEHDQ
						ERWHDAFGNGGADNHSKLOA
						STRRGGPLSQELLQSLAASLAA
		1				GGLTALSAEFTIGKGELMAHDV
						LWGCAPDEYDDLISGTCSHLPK
		1				GKTHDVLTGSDDGRHSNTSLA
						WGAGVOFNPTESVAIDIAYEGP
20304	50672	В	20421	34	800	
20305	50673	A	20422	130	368	ROVITTLYIPYRRRHLSPPDPEQ
		Ľ			1	PLNHKONRKVNHGGTEFOVVV
		1				LPFPKMKINCYRRNOFFLFFFST
		1				VKVPVGWSMVPLQAATAGAR
		l			1	L*NSDISPLKSQQTQDKFPSSKP
		l				PHIYIKK
20306	50674	A	20423	1	57	
20300	1200.4	ı	120.23	1	P'	l

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				scquence		
20307	50675	Α	20424	85	874	GPRGLVSMAGGSVEVTPSTFTC
		İ				YLRPPSASPPTPPSHPGLLPRSPA
				İ		LCSLHTGARTLPLFGGGRCSSA
						VLPPRPGP/RAGSGSGQRERFHR
		1				FQPTYPYLQHEIDLPPTISLSDG
						EEPPP*QVPCHLQVR\DPKQQL\
						ELNRE\SVGAPPNRTIFDSDLMD
		l				SARLGGPCPPSSNSG/ISAPTCYG
	,					\SGGRMEGPPP\TYSEVIGHLPG
1						GPSFQH\Q\QSSGPPSLLEGTR\L
l						HPHTHSRP*RSAAIWSKEKDKQ
						KGHPSLGSPGGPGLGLRR
20308	50676	A	20425	3	250	ESVSATEDLAPDAAQGEDNSEI
						KELL\RENEPLPACNGPAQAQPS
						PTTERAKSQEEVLPSSTTPSPGG
						ALSPSGQPSSSVDAA
20309	50677	Α	20426	2	393	
20310	50678	Α	20427	1066	1824	
20311	50679	Α	20428	3	902	
20312	50680	Α	20429	1	2163	
20313	50681	A	20430	1	1890	
20314	50682	Α	20431	1	2882	MKQQLPVSYLQVIFNHWASRIS
		1			i .	GARGAGWGPVRLGRLCADRAL
						DGESRPGGGGQSGVPASEASQ
		1		ł		KAAHGRRLPVPARLLRCAHSA
		1		l		LEPGRGSASSPRNSTTSDNDQPP
		1				DYSFSKRCDSHSLGFSLVWESR
		1				NLTLPPTSKLLHFSAFHFFIYKC
				1		RAEGHKLYKDLKNFLSAVKVM
						HESSKRVSETLQFIYY\SEWYGH
1		1		I	I	EELKAIVWNNDLLWEDYEEKL
						ADQAVRTMEIYVAQFSEIKERI
		_				AKRGRKLVDYDSARH

SEQ ID SEQ ID NO: of peption sequence	te hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first eodon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop eodon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20315 50683	A	20432		1791	MPGARTSSSGASENHRARGQG GGPQGVGRMAEGKAGGAAGL GAGQVGRMAEGKAGGAAGL KAVETKDERFEQSANNFYQQQ AEGHKLYKDLKNFLSAVKVMH ESSKRVSETLQEIVSSEWOGHE ELKAIVWNNDLLWEDYEEKL ADQAVRTMEIVYAGPSEIKEN AKGRKLVDYDSARHHLEAVQ NAKKKDEAKTAKAEEEFINKAQ VTYEFDLNGELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LINHLYEWNSKLEKQHSNKVF VKGLSSSSRRSLVISPPVRTAT VSSPLTSFTSPSTLSLKSESESVS ATEVALAGAGENSEIKELL EEEEIEKEGSEASSSEEDEPLPA CNGPAQAGPSTTERAKSGE VLPSSTTPSPGALSPSGQLSSS ATEVALVARTRTASEGSEIREKL EGGTGASSTEDERPATASPRP CSGNIPSSPTASGGGSATSSRAS LGTGTASPRTSLEN*PNPENPPEK LGTGTASPRTSLEN*PNPENPPEK PKTTEAKEMENIHNQNPEELC TSPTLMTSQVASEPGEAKKME FYRTPEAKEMENIHNQNPEELC TSPTLMTSQVASEPSGEAKKME PKKTPEAKEMENIHNQNPEELC TSPTLMTSQVASEPSGEAKKME

2604

SEQ ID NO:	of peptide		SEQ ID NO: in USSN	location of first	codon for last amino acid	Amino acid sequence (X-Unknown, *=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
20316	50684	A	20433	158	1830	QLQSKMKLFWLLFTIGFCWAQ
						YSSNTQ/SKGRTSIVHLFEWRW
						VDIALECERYLAPKGFGGVQVS
İ						PPNENVAIYNPFRPWWERYQP\
						VSYKLCTRSG\NEDEFRNMVTR
1						CNNV\GVRI\YVDAVINHMCG\N
1						AVSAGTSSTCGSYFNPWKLRTF
l						PAIP\YPGWDFNDGKC\KTGSGD
1						IENYNDATQVRDC\RLTGLLDL
ĺ						ALEKDY\VRSKIA\EYMNHL\IDI
1						GVAGFRLDASKHM\WPGDIKAI
1						L\DKLHN\LNSNWFPAGSKPFI\F
i						QEVIDLRVGEPNLKASDYFGNG
						RVTEFKYGAKLGTVIR\KWDGE
i						KMSYLKKWG\EGWGF\MPSDR ALVFVDNHDNQRG\HGAGGASI
1					 	LTFW\DARLYKMA\VGFMLAHP
						YGFTRVM\SSYR/WAKHSFKKG
						NDVNDW\VGPTQINNG\VIKEV
						TINPRH*LVGND\WV\CEH\RWR
1						\OIRNM\VNFRNGSGMAOPFLO
1						NWYDNGSNQVAF\GRGNR\GFI
1						VFNK*WPVIFI*LCKPGLPAGSY
		١.				CDVISGDKVIGNCSAIKIPVSVD
1						GKAHFSMSNSAEDPFLAIHAES
1						KIVKFKIKCKSAKQKKKKKKG
1			_			RPF
20317	50685	Α	20434	3	383	
20318	50686	Α	20435	1	378	CASGSSGWRPVLWAGAFTMAS
						AELDYTIEIPDQPCWSQKNSPSP
						GGKEAETRQPVVILLGWGG\SK
						DKNLVKYSAIYHKRKLLELLFD
ł						YEIEKEPPAFSLSSATVASCCTA
		<u> </u>	22124			TCWSSCRPVASAACV
20319	50687	Α	20436	1	558	CASGSSGWRPVLWAGAFTMAS
						AELDYTIEIPDQPCWSQKNSPSP
1			İ			GGKEAETRQPVVILLGWGGCK DKNLAKYSAIYHKRGCIVIRYT
						APWHMVFFSESLGIPSLRVLAQ
						KLLELLFDYEIEKEPLLFHVFSN
			l			G/VRHAVPLTCWELLOTRRFCR
						LRVVGTIFDSAPGDSNLVGGSA
						GLGSHPGARG
						GEGGIII GARG

SEQ ID	ISEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleatide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first		*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
	'			sequence		
20320	50688	A	20437	78	1237	CWSHSDTYWPRTPRPPPPGRPG
1						PVVHLAQPVLHPEAGIPEFWES
						GSPGQTRGAALVLTVHICVSEN
						SPSPGGKEAETRQPVVILLGWG
1						GCKDKNLAKYSAIYHKRNTAT
						LQPPLTYMRGWGLFLTGAPAD
		l				QYLIQIKRISQWLRGCIVIRYTA
						PWHMVFFSESLGIPSLRVLAQK
						LLELLFDYEIEKEPLLFHVFSNG
						GVMLYRYVLELLQTRRFCRLR
	1					VVGTIFDSAPG*QQPG*GL\SGP
						GQPSWERRARPMLRLLLLVAF
				1		ALGGSSCFHVLLAPITALFHTHF
1						YGQAYRTRALAWPELYLYSRA
1					1	DEVVLARDIERMVEARLARRV
1						LARSVDFVSSAHVSHLRDYPTY
i						YTSLLCRTSMRKLRPLLKAIAPS
						HLCSQKINALKPSP
20321	50689	Α	20438	3	427	
20322	50690	В	20439	101	1099	
20323	50691	Α	20440	733	2228	

2606

SEQ ID	SEQ ID NO:					Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stnp codon, /=possible nucleotide
	sequence	l	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20324	50692	Α	20441	582	2595	PPPPVRRRDPGPAVRPAGAMA
		1				KKSAENGIYSVSGDEKKGPLIA
		l				PGPDGAPAKGDGPVGLGTPGG
		l				RLAVPPR\ETWTROMDFIMSCV
		1				GFAVGLG\NVWRFPYLCYKNG
		I		İ		GGVFLIPYVLIALVGGIPIFFLEIS
1						LGQFMKAGSINVWNICPLFKGL
		1				GYASMVIVFYCNTYYIMVLAW
		l				GFYYLVKSF\TSTLPWATCGNY/
		l			i	TWKHSPTCVEIF\RHEDC\ANAS
		1			ĺ	LANLTCDQLANR\RSP\VIEFWE
		1				NKVLKLSGGLE\VPGALNWE\V
	1	l		İ		TLGLLACWVLVYFCVWKGVK
		l				STGK\IVYFTA/THYPYVVLVVL
	1	1		į .		LVRGVLLPGALDGIIYYLKPDW
		1				SKLGSPQVWIDAGTQIFFSYAIG
						LGALTVLGSYNRFNNNCYKDA
		1		l		IILALINSGTSFFAGFVVFSILGF
ł		l				MAAEOGVHISKVAESGPGLAFI
	Ì	ļ				AYPRAVTLMPVAPI\WAALFFF
1						MLLLLGLDSOFVGVEGFITGLL
		l		i		DLLPASYYFRFQREISVALCCA
						LCFVIDLFMG\TDGGMYVFQLF
İ		l		i		DYYSASGTTLLWQA\FWECVV
}		1				VAWVYGADRFMDDIACMIGY
		1				RPCPWMKR\CWSFFTPLVC\MGI
		l				FILNVVYYEPLVYKON/TYVYP
		l				WWGE\AMG\WPFALS\SMLFVP
		l				L\HLLGLPSLRAKGHPWLKRW
						QH\LT\QPIWGLHPL/EELPRFRD
20325	50693	١	20442	1	363	ADVQGTLTHP*TPVSESSKVV\V MGKRGLILLIEACIAIAQPLQRW
20323	30693	A	20442	1'	303	
1						FVVPPRAGMPVTYD/HSNSAAG
		1				SPPV*NARLCSPGEKVLCRSQT
						GNFPHTPQEQAVPSAWNALPV
						QP*SH/GPSPMLVPCRCVCPMET
2002	50504	!	22442	212	1200	RVQGSASPGGQG
20326	50694	A	20443	747	1389	LGAVQLCPPPCRPCHRAALPGG
					i	LFPPPRPPHSPQAGPLHPQWTQ*
		1				PGSVGSPTQLSPEASRPQWPPT
						A\GSPRAGVHPGHGQA*SADISS
	l	1	1	1		AKQWTQVGPAGQGGSKFGKT
	l	1				KVPWQSGPLGWDPGARAGQG
	l	1				VG*ETRGPSLQLAWSDGEGV/P
					1	GWRGSYRGHRRGP*PPAPWPW
				I		SGGHPGSPMEWPCPGTELQMR
					L	NRAGSRDLHSLGRAPPAATAPS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	eodon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20327	50695	A	20444	90	1181	RAEPHLQVPGVPGSAQKPQGT QMAPVSPRRGPQRGWHTLGAQ RLLPQAALSSPAFPQHFPGGRWA PRRRGQSSQGHSPESLPSERAQP WNHPPQLLSPCTPLSCP* GGPR QA/EQAGDSGSGTWVGLGAAP SERGAPMSARHWLRAPGRRPIF LISALW**TPAWGGPAASRSP GGPSSRVVGCPLCPLAPGPVPS VC*RPMSTKDLPPSFR**CPPA GPAPV*SPKAVGIPAWERPFTR PETEGAGGSCAERLLAPVEMAP VSRGQRRDPEPGSRHQ/DPFTDT AALGGPRPPOHLPRTRQHWEI* GPGAPPTDTAALGDLRPQSPGL LMELGUPSKPHAGPFTQFTDT LMELGUPSTPHAGPTDT ALLGDRPGPFOHLPRTRQHWEI* GPGAPPTDTAALGDLRPQSPGL LMELGUPSKPHAGPGVGPVGGV GKLWPGGQGSCPQSPPV
20328	50696	A	20445	2	957	IPSKEDHIEKAEFEYHEVYAVDV LVSSGEGKYREYPELAKRGDYE CSPDQMILIKLIFQAKDAGQRT TIYKRDPSKQYGL KIMKTSRAFF SEVERRFDAMPFTLRY*AMI'KS NPKHDFCLRYGAILKYEQNGK TYWGYNGYSEYBLFSKLKYM'KS NPKHDFCLRVGAILKYEQNGK TYWGYKDTSEYHLPCQAFEDE KKARMGVYECAKHELLOPENV LYEKGGFEQKELHFGFDYKISF LYOKSY'GNNFLSKHIFFAIG EFVAOFKFTVLLMPNCPMRITS GEFDULYKSENEVQDAELKA LLQSSASRKT
20329	50697	Α	20446	85	266	

2608

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:		Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
		1		sequence		
20330	50698	Ā	20447	207	1759	LSORALRLSPRARSFSLSPACPL
				1		PCLLALSLALSSRIEGTLTTACG
				1		WGRETEAAAAQGKRGCSGGSR
						KMSGEDEOOEOTIVD/DSLVVT
	i			İ		KYKMGGDIANRVLRSLVEASSS
						GVSVLSLCEKGDAMIMEETGKI
						FKKE\KEMKKGIAF\PTSISGTIN
1	1					*PI/CHFSPFERSD\QDYIPPRKGD
						LVK\IDLGVPCWMGFIANVASH/
						SFVVDVAQGTQVTGRK\ADVIK
	ŀ	1			ł	AAHLCAEAA\LRLVKPGNQNT
	l					QVT\EAWNKVAHSFNCTPI\EG
						MLSHSLKQHVIDGEKP*FQNPT
l .						DKQK\RAHEKADFEV\HEVYAV
						DVLVKPQERARPKDAGQRTTIY
						KRDPSKQYGLKMKTSRAFFSE
						VERRFDAMPFTLRAFEDEKKA
1		1				RMGV\VECA\KHELLQPF\NVLY
1		1				EKEGEFVAQ\FKFTVLLMP\NGP
						MRITS\GPFEP\DFYK\SEMEV\Q
		1				DAELKALLQ\SSAKSEKPQKKK
		1				KK\KASKTAGEWPLVAFSAVLE
	i i					TFRRKWKLGGLEVGPISPACCS
						CLHPPSHQTPRLCEVQFFFST
20331	50699	Α	20448	1	3825	
20332	50700	A	20449	1084	2429	ARERSLRGSPAREREKERKCTA
						LSE*GEQMERKTNS*TKQTE*N
İ		i i				RNEIGPRGAGPPGDAGSGRQPA LRPHVHKOTEKTTRVRTVLNE
		1				KOLHTLRTCYAANPRPDALMK
l	1	1				EQLVEMTGLSPRVIRVWFQNK
		1				RCKDKKKSILMKQLQQQQHSD
		1				K/SGEQPLGRRLESGGGCASAA
						VSACPFLGEPWEIQGELGAPDG
		1				VCLYLHSKASLGFEASYFVWD
		1				RGFSLSQWQPRVAGSGRCAEP
1		1				KAAWOCAAPASRAGGLCTPSA
		1				AAERSPVEKEGSSDAIECAPPR
		1				KAMOTLNHSRPGAPVSKVAEK
1		1				ARPNSSTYCLLLAPOSLOGLTG
		ſ				TPLVAGSPIRHENAVQGSAVEV
	1	1	1			OTYOPPWKALSEFALOSDLDOP
						AFOOLGLISAGGRSPRDTFRLG
						ARGPGAPARVPLHLPLPGVSAA
	1	1				P\VSFSESGSLGNSSGSDVTSLSS
		1				OLPDTPNSMVPSPVET
20333	50701	Α	20450	133	276	
20334	50702	A	20451	2	205	WDTSS*SLRTPRSRQVSTRPRR
		1			1	KKEKLPSKGMFSSVSLPQVLTQ
1	1	1				RHQRPTCSWSLCWQPQHLILLR
		L				s

SEQ ID NO:	of peptide sequence	hod	SEQ ID NO: in USSN 09/540,217	location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, a=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20335	50703	A	20452	182	411	GRAWPAPPTSVTPRLRSPAESP RWPSAEERSSLP/VRGRRPGYG* VSCCGPRAPPGVNGDALRSARP AQLPA*RPQRH
20336	50704	А	20453	786	1208	GVHRGTHGRQKWRPCAPRAQ HSWGPGGRLPAGCRG*AGSCA/ PSLGL*CGAGPQGWGRRDP*TR RRTPRRPPRGPRPRVWMAPPAR SHPWRAAPRSAGAAPRPLGLG GRSGRETRPAPGGELQRPAAAG PPLMSCGWRVVLA
20337	50705	A	20454	385	727	KAMSPVFPRHSKWDLDLSRPLF TSAALLSACKILKLKVDKNKM VATSGVKKSYI*STV*TTEEW TAGRQRTWRCIYSTTEEKEDSG *SPSKGNGEGRGDAT*TTER*RS DTGL
20338	50706	A	20455	568	3382	HPGWVARGPGAEGEHAAGCG PARCQAGGPLQDGGCGGQGHR FGGGHYPEIKGGGFPHAGACAL EERQPR*QP*GYGKRGGGLFHA SSSPSSGGSRTEPAEG*GGAVCR AGDLGHIDDAGDHGDSGKKE RVEEEGGKPKHVLSTSGYQSD AREPGEESQKADVLEGTAERLP PIRASGLGADPAQAVVSPGGD GVPGPAQAFPGHLPLPTKVEAK APETPSENLRTGLELAPAPGRV NVVSPSLEVAPGAGQGA
20339	50707	Α	20456	762	1245	LRQYSVKMRIVPTILLNFGADP DLRDIRYNTVLHYAVCGQSL\S LVEKLLEYEADLEAKNKDGYT PLLVARY*QLIPKLVKFLLE\KG ADVNASDNYQRTALILAVSGEP PCLVKLLLQGGEICNEG\MVD SQLRNMFISMVLLHRYPQFTAS HGK\QKHAK
20340	50708	A	20457	346	608	PKRRGAPLPVIPQSAS*KPKLPM GRPPPPVPSVSPGPLPGSLAIAP HSLEPHLVQSSCLVVPPKTKQS KRKPGRGAQAPTLPNATEFSVC RNDPKEGGRSSP*FPNRLLEPE APPRPSAGESPRPAAA/SPLPCSE EK/PTPQLCAKERLAPSAAPPPP PRCGPAPLLEPSAWTPELARRA

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	cudun for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
20341	50709	Α	20458	340	889	SAPFSSGERTPGCPEASPFPGGG
				ĺ		GGNARPSGPAPHPPSSAS*KPKL
						PMGRPPPPVPSVSPGPLPGSLAI
					l	APHSPEPQLVQSSCLVVPPKTK
		1				QSKRKPGRGAQAPTLPNATEFS
l						VCRNDPKEGGRRSP*FPNRLLE
		l				PEAPPRPSAGESPRPAAA/SPLPC
						SEEK/PTPQLCARERLAPSAAPP
						PPPRCGPAPLLEPSA\EAEEGGW
						GAGPLGRALPPPPPGKGLASGQ
		1				PGVRSPDEKGADQRQPSGPRLC
İ	ŀ	1				SAPAPPRRS/PPRRRRPSNFVPED
						QPHYVPGSASAGPRRSPRPPRR
		L				ELGAPSHLP
20342	50710	Α	20459	148	397	GHKELVTGTEAIELAHAYETCH
l						AVPRTIAKLVPKTH\LMSESEW
					1	RNLGVQQE/RQGWVH\YMIHEP
L						E\P*HFGCSRRPLTQGTQRK
20343	50711	A	20460	139	272	VLKPGGSYSFGSPSCNSSH*LIG
						FQKWKDVPCEDKFSFVCKFKN
20344	50712	Α	20461	440	1167	ARDSLQLSMAQTSSYFMLISCL
		1				MFLSQSQGQEAQTELPQAR\ISC
	1	ı				PEGTNAYRSYCYYF*WKTRET
1	1					W\VDADLYCQNM\NSGKLGVC
		1				GSPRAEGCLFWPQLI*GGVGT*
						WTFNVLDLGLQ*PPKRTRRW\H
		1				WEQWGPLVSLQSSWGHWEPPS
		1				RCLNPG\Y\CVSLDLQSTRISRN
						WKDVPFVKDK\FSF\VCKVQKT
		1				RGQAGKIQCLELTPAITNGVQK
		1				LNRTISPTQLNLVTLFSAEFALLI
				<u> </u>		FNSFT
20345	50713	A	20462	3	322 420	DI TIGI LIGILI CI INDEL MI LIMICO
20346	50714	A	20463	1	420	DLYELVQYAGNIIPRLYLLITVG
	1					VVYVKSFPQSRKDILKDLVEMC RGVOHPLRGLFLRNYLLOCTR
ĺ						NILPDEGEPTDEETTGDISDSMD
		1				
l		1				FVLLNFAEMNKLWVRMQHQG
	1				1	HSRDREKRERERQVSW\RCKCG
203.47	50715	١.	20464	1	1446	TLQ\QIVLTG
20347	50715	A_	20464	11	1440	

SEO ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown.
NO:	of peptide	hod	in USSN	location of first		*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20240	(0716	-	20465	2	2564	LCACAACCRI WCVAMPTTOO
20348	50716	Α	20465	3	2564	LGAGAACCRLWGVAMPTTQQ
					ĺ	SPQDEQEKLLDEAIQAVKVQSF QMKR\CLD\KNKRIGVRHKTML
1						RNMLG\ELRTSMLSPKSYYELY
						MAISDELHYLEVYLTDEFAKGR
						KVADLY\ELVQYAG\NIYPQGF
						YLLVHSLSCNNVKSFPQSR\RDI
						LKDLVEMCRGVQH\PLRGLFLR
						NYLLQCTRNILPDEGEPTDEETT
					Į.	GDIRDSMDFVLLNFAEMNKLW
						VRMQHQGHSRDREKRERERQE
				1		LRILVGTNLERLSQVE/WCKCG
						TL\RQIVLTGILEQVVNCRDALA
						QEYLMECIIQVFPDEFHLQTLNP
						FLRACAELHQNVNVKNIIIALID
						RLALFAHREDGPG\IPADIKLFDI
						FSQQV\ATVIQSR\QDMPSE\DV
						VSLQVSL\INL\AMKCYPDRV\D
						YV\DKVLGNNSGRIFNKLNLEHI
						ATSSAVSKGNFTRLLGKLPVGH
		l				FTNNILT\VL\KLKHFHPLFGYFD
		ł				YESRK\SMSCYVLS\NVL\DYNT
						EIVSQDQVDSIMNLVSTLIQ\DQ
		1				P\DQPVEDPDPEDF\ADEPEALV
						ARFIHLLRSEDPDQQYLILNTAR
				i		KHFGAGGNQRIRFTLPPLVFAA
				1		YQLAFRYKEI\SKVDDKWEKKC
						QKIFSFCPTKTI\SALIKAEL/AQE
				l		LPLRTFSFKGGT*LA/AGELGFG
					1	NHG\TVAY\EFMSQGIFSVWKD/
1					l	EKSGDFPKAQLGWPFTFGSIGA
1				l		LFERVEVLSVEEDSWNPLR/TQ
20349	50717	С	20466	23	385	
20350	50718	С	20467	16	435	
20351	50719	A .	20468	1	436	
20352	50720	A	20469	I	747	
20353	50721	Α	20470	1	864	

SEO ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
ļ	'			sequence		· · · · · · · · · · · · · · · · · · ·
	L				<u> </u>	
20354	50722	Α	20471	2	2138	VGRAAAAAAAVAVPLAGGQE
1		l				GSPGGGRRGSRGTTMVKKRKG
1		1				RVVIDSDTEDSGSDENLDQELL
1			i		•	SLAKRKRSDSEEKEPPVSQPAA
						SSDSETSDSDDEWTFGSHKHKK
						KGQARTLEQKGTMKKQANKT
l		l				ASSGSSD/RTDSSAESSAP\EEGE
i		l				VSDSDSNSSSSSSDSDSSSEDEE
1				l		FHDGYGEDLMGDEEDRARLEO
1		l		i		MTEKEREQELFNRIEKREVLKR
1						RFEIKKKLKTANKKEKKEKKK*
1		l				QEEEQEKKKLTQIQESQVTSHN
1						KERRSKRDEKLDKKSOAMEEL
		l				
		1				KAEREKRKNRTAELLAKKQPL
-		l				KTSEVYSDDEEEEEDDKSSEKS
l		l				DRSSRTSSSDEEEEKEEIPPKSQF
ŀ						VSLPEELNRVRLSRHKLERWCH
		l				MF\FFAKTVTGCFVRIGIGNHNS
1		1				KPVYRVAEITGVVETAKVYQL
		1				GGTRTNKGLQLRHGNDQRVFR
l		l				LEFVSNQEFTESEFMKWKEAM
l		l				FSAGMQLPTLDEINKKELSIKEA
		l				LNYKFNDQDIEEIVKEKERFRK
		l				APPNYAMKKTQLLKEKAMAE
1		1	i			DLG\D\QDKAKQIQDQLNELEE
		l				RAEALDRQRTKNISAISYINQRN
		1				REWNIVESEKALVAESHNMKN
l		l				QQMDPFTRRQCKPTIVSNSRDP
		l				AVQAAILAQLNAKYGSGVLPD
		l				APKEMSKASVGOGKDKDLNSK
		l				SASDLSE\DLFKVHDFDVKIDLQ
	i	l	i			VPSSESKALAITSKAPPAKDGAP
20355	50723	A	20472	438	709	FLSOSWIFKOIRASRTLFLVAFS
		`		1.50	1,00	SNTFTSCRSFCSSSEAMGAGSG
		l				RSPELOPRRRRNRKPRAEPSNR
1		l				AQTPTRTS/LRRCSLRPHRPCAR
l		1				SR
20356	50724	A	20473	2	1315	ILQKRIGGFLDALVRNSQPARYI
20330	30724	l^	20473	 *	1313	NDYQLSNYGLDMLGPSLDPAP
1		1				
1		1				MASEELQKDLEEVKVLLEKAT
1				ĺ		RKTEKSKIETEIKNKLQQKSQK
1		l		1		KAELLDNEKPAAVVAPITTGYT
		ı				KGGGGEERGGEAPTSNEAQAT
		l		1		EVRGGAGGGKDKDDGDRER\P
		l	1	l		RKTRGGRARTE*NNRHEQ*IQI
1		1	1	1		KKRRETEKERRNEKGRRRHKT
1		ŀ		1		ATQKRRREERRARRVGEGTRK
				1		REQPAHEQEHATTTHTRPPAP/R
						RTRKTQTHNRKERKKEE
20357	50725	С	20474	43	162	

SEQID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence		Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20358	50726	A	20475	2	363	YEPLDSNKRIGTSSSSYVLCLCS SLAIFSNFMGNLLSFCGVLKLK SLACIH*RFFFN*A**VFIHISSRE Q*FINVCSSCPAFFNPERRNELY ASLLSFVPSALVPIFEDNVSYLF
20359	50727	A	20476	505	2294	VKSF VYSDAKSIYCLLFAHSQRPPCV FNENDPQNSGTVHTVFLVGLTD HRHARAKIESWAGEAAPFTLV AASADKLFGOLHISKYCGRIAV SVFQFQQYCGLCDSTSYSLQQY CGLCGST*HSGTVASVAGLH VAVPWPLWQDFTLWQYRGLC/AQDFTLWQYHGLCGRTSRVAV PWPLWQYFTLWQYCGLCGRTSRVAV AGLHVWQYCGLCGSTSRC/AW YAGLHVWQYCGLCGSTSRC/AW GGLGRTSHAWQYHGLCG RTSYC/EQYRGLCGSTSRC/GX QYHGLCGRTSRLWQYHGLCG RTSYC/EQYRGLCGSTSRC/GX QYHGLCGRTSYLWQYHGLCG RTSYC/EQYRGLCGSTSYC/GY QCHGLCGNTSYCGILQLQQY SGLCSSTSYWGSTVASVAVLHI AAVLWPLRQYFILQQNRGFCG NTSYCG/SYFILQQYHGLCGSTSYC FQVRGLCGSTSYCGTVV GQVHGLCGSTSYCGTVV CGSTSYWGSTSYCGTVV LQQYHGLCGSTSYCGRTVV VCGSTSYWGSTSYCGTTVASLA VLHIVAVLCPL*QYFTINKTK KTKPGSCHLTYFGGAAGGPSL*
20360	50728	A	20477	2	554	EWICCLROPKSLSFPYWGFEVW LSSTGGI-HAGHLCSSPCILVIPI LSSQHIFAVLINTNIRLGRRKNS PLPITAHLRVWARRYAHVVLR KADIDLTKRAGELTEDEIVER VITHILQNPRQYKDPKTGFFEQ DKKDVK\DKVSQKYSQVPSQLV NKLP*KTWEPTERRFRAH*/RGL RHFLGAFRYRGGAHQPLGRR GRHRWXCPRRK

SEQ ID	ISEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20361	50729	Α	20478	50	774	LFGVVYTGFCLGVWTAGVGGV
		1				PGPNFPRPILTLVRGP*GKGVG
						WVAGPGQLRPTGPWSI*VSHPT
		l			ŀ	PPGPLSISYRAQAAGGQGPAP\I
						THPQGRQEP*RQLPPGGPLA/RH
						PPKAPDPARPHP/RQHRGPS/ST
l		l	l			APKGRCWQHKQEPSGHPAGHT
						PGRPG/PPQAPPRPSPWVGPGPQ
						TPTPCP*DEPHRPPGLQPWRPFS
						PLAMAPMGRLQALPGLDQRGQ
						TVSPLRLLGALESLAWLPSAFIA
20362	50730	C	20479	156	908	
20363	50731	В	20480	1	804	
20364	50732	С	20481	278	551	
20365	50733	Α	20482	169	1144	INYSLEKHVGALGRVLFSL*RA
	l					GCPGMGSTRERGLYLGKHRGS
						GGIW*ALAGP*KSRGDSVSLTQ
	ŀ					GHTHVCSRSPR*ADSPPG/SHLS
	1					PVPHSVEVAGHVLVPATRAAV
						PCSASAGA*QSTYRTGVHQGNP
i		1		1		TV*TK/PSRRPSGGVAK*FLPSA
1	l					VRGEPGAKPLVDDLLPGWSLA
1		ł				THGQPPLVAAPGSGLWGRPAD
						A*GCETAGGSPCPRSTSRPSGPS
		1				GVQGCPLG*AGSGASASRSEPP
						GSTSCCPRAP\T*PAAPCVPDWP
					1	AGDQWRSHGYLPPSREL*G/W
				1		MPPSRPATLPQLAFARQRQGNR
	İ	\perp				FDAAFESSGEDFHQMPRVGRM
20366	50734	С	20483	31	90	
20367	50735	В	20484	48	197	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20368	50736	Α	20485	5447	5642	PRDMESCYNPGLDGIIEYDDFK
20368	30736	A	20463	3447	3042	LNSSIVEPKEPAPETADGPYLVI
		l				VEOPKORGFRFRYGCEGPSHGG
						LPGASSEKGRKTYPTVKICNYE
		1				GPAKIEVDLVTHSDPPRAH\AHS
		1				LVGKQCSKLGICAVSVGPKNM
						TAQFNNLGVLHVTKKNMMGT
		l				MIOKLORORLRSRPOGLTEAEQ
		l				RELEQEAKELKKVMDLSIVRLR
						FSAFLRASDGSFSLPLKPVTSQP
						IHDSKSPGASNLKISRMDKTAG
	1	1			i	SVRGGDEVYLLCDKVOKDDIE
1						VRFYEDDENGWQAFGDFSPTD
		1				VHKQYAIVFRTPPYHKMKIERP
		1				VTVFLQLKRKRGGDVSDSKQF
						TYYPLVEDKEEVQRKRRKALP
						TFSOPFGGGSHMGGGSGGAAG
	1					GYGGAGGGGSLGFFPSSLAYSP
1						YQSGAGPMRCYPGGGGGAQM
						AATVPSRDSGEEAAEPSAPSRT
i						PQCEPQAPE\MLQRAREYNARL
				1		FGLAQRSARALLDYGVTADRR
						ALLAGQRHLLTAQDENGDTPL
1				ŀ	i	HLAIIHGQTSVIEQIVYVIHHAQ
ŀ				İ		DLGVVNLTNHLHQTPLHLAVIT
				l		GQTSVVSFLLRVGADPALLDRH
	l .					GDSAMHLALRAGAGAPELLRA
i						LLQSGAPAVPQLLHMPDFEGLY
1						PVHLAVRARSPECLDLLVDSGA
1	1					EVEATERQGGRTALHLATEME
1	1	1		l		ELGLVTHLVTKLRANVNARTF
		<u></u>		l		AGNTPLHLAAGLGYPTLTRLLL
20369	50737	A	20486	3	346	PQTITDTELWVTLTVEVWDIST/
		1		1		LFPGN*SHA/TLPSH*NLITLTPL
1		1				NANI/AIPQHALKGLKPVITRLL
-		1				QHGLLKPINSPYNSPILPVQKLD
						KSYRLVQNLRLINKIVSPIHPVV
		<u> </u>				PN
20370	50738	Α	20487	1	808	YGTSLLLPWQLITCPLPSH*NLI
	i					TLTPLNANI/AIPQHALKGLKPVI
						TRLLQHGLLKPINSPYNSPILPV
						QKLDKSYRLVQNLRLINKIVSPI
						HPVVPNPPAFTSQITQAVSQAL
		1				GIQWNLHIPYHPQSSGKVERTN
	1					GLLKVHLTKLSLQLKKDWTVL
		1			1	LPLALLRIRACPRDATGYSRFEL
1		1		1		LYGRTFLLGPNLIPDTSPLGDYL
						PVLQQARQAANLLLPTPDPQPH
		1				EDTLAGRSVLVKNLTPQTLQPR
	L		L		L	WTGPHFIIYSTPTAVCLQDPPH

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20371	50739	A	20488	2	513	CCPIASEAQ*TITDAELWVTLTV EAQSLLRVFLSYLPHT.HEYGT SLLLPWQPITCPLPSR*NLITLTP LN/GQVPIPQHALKGLKPVITLL LQHGLLKPINSPYHSPILPVLKP DKAYKLVQNLR.LIYQIVLPIHP VVPNPYTLLSVPPSTTHYSVL DLKHAFTIPLQP
20372	50740	A	20489	1	1893	
20373	5074I	С	20490	1	1806	
20374	50742	A	20491	1	645	MTSGPOJNOPKKHLTNFKSEPS DL/FPSSPGCSLPAED*RCPIALE AP*TITOAIRVTLIVEGKSVPLV NTEATQSTLPSFQGPVSLASITV VGIDDQASKPLKTPILLWCQLG QHISFMISFLVIPTCPVPLLGRDI LTKLSASLTIPTCJOPHLIATLLP NPKPPSCLPLLSPHLINPQVWDIS TSLATDHIMPITIRLKPNIJPVPAQ RQVPIPQHALKD
20375	50743	A	20492	113	328	LGSGAWGGGDLPWEINPLSSCS LLREKDLLTTSGPQT\TSPRNISP ILNRDPTVQLTWQPLPEPLELW PKAL
20376	50744	С	20493	183	254	
20377	50745	A	20494	1	511	MWKGPKGLDMYGKSSVSPKTS DILGRDTLLLALKVQTVVLQTA CGEGHVAGNCGRPLETEGSLQ LTATKKLRDSVLQPKSPEFCQQ FTRAWNRTQVPDETEAPAGTY AAQSGDLPWEINPLSSCSLLHE KDPPTASGPQTTSFRNISFILNR VSEVSDHAGTPALVLHP
20378	50746	A	20495		1108	MWESLELPONIFIGEFOQNADN DMDDEIQAEVISDGDEEFVGN WNERPROL VPCILATLALTKROQ DTAQTMASEGARPKHWQLPGG VGPVGAQKSRIEV WEPLPIFRR MYGRACMISRQKFAACAGFSW VYPVAVVGAKVHDVNLHMLS FPSKWKLHTCMKFGAVTQIVTS LGRSSCSLLLEKDPPMVLRPTSP RNISPISNLTKETRFIRGPFCTPAP VTDWEGSLPLVFSHCRDASLII LINLTFKVYNNRKKLQFLAFTV RQTSAMSPAHKNFQTPEPQRG IPPEPPPPGACYKCHEIRPPGQG MPAAQDSS*ATSILSYRDPTGN MYTQLTWHPLEPFLELWFNAL

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20379	50747	Α	20496	128	302	TAAARHSSRTSSPRSLLQVLEI
						WPSGQGMPAAWDSS*AASHL
						WQPLPEP\LELWPKAL
20380	50748	С	20497	80	106	
20381	50749	Α	20498	196	575	
20382	50750	Α	20499	1	505	TKETRFIRGPKTPAPVTDWEGS
ĺ						LPLVFNHCRDASLIIHPGFRGVR
	1					PRRDACLSPSPLANLINLTFKVY
						NNRKKLQFLAFTVRQTSAMSP
						AHKNFQTPEPQRPGIPPEPPPG
	1					ACYKC/HEIRPPGQGMPAAQDS
						S*ATS/LSVRDPTGNWTVQLTW
ĺ		Į.				HPLPEPLELWPKAL
20383	50751	Α	20500	372	563	LRSADLPWEINPLSSCSLLHEKD
						PPTSSGPOT\TSPRNISPILN/PEK
			į			KETRFIRGPKTPAPVMD
20384	50752	Α	20501	96	505	WS*QP*GLGSHRHHRRRHHRSS
		1				SSSSSSSSSSSKSNSDWOPLPEPL
						ELWPKAL
20385	50753	Α	20502	79	207	
20386	50754	Α	20503	583	736	
20387	50755	A	20504	99	246	DLIFHQRHSVSAESLTMHGLNN
						*QTSAKRVVQG\TWQPLPEPLE
	1					LWPKAL
20388	50756	Α	20505	654	719	
20389	50757	Α	20506	71	951	LRSGDLPWEI/NPLSSCSLLREK
	1					DPPTTSGPQT\TSPRNISPISNPR/
		l				PKETRFIRGPKTPAPVTDWEGS
				l		LPLVFNHSRDTSLIIHPGFRGVR
	1	1				PRRDACLGPSPLAASPTFLGKG
		1				PAAPRQTELGPNSSSASAPPPYN
1						PFIASPPHTWSGLQFPSMTSPPP
	1					PAQQFTLKKVAGAKGIVKDLIN
l			1	1		LTFKVYNNRKKLQFLASTVRQ
l					1	TPATSPAHKNFQTPELQQPGVP
l				i		PEPPPRGACYKFQKSGHRAKEC
l	1			1	1	LOPRIPPKPHPICVGPHWKSDCP
l	1					THLAATPRAPGTLAOGSLTPSOI

SEQ ID	SEQ ID NO:		SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last aminn acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
20390	50758	Α	20507	1	1010	CSEYEDSSPAPVPATDLSSTLSS
						SVPQPQDTGTSQQLHPLDPWHE
1		l				LLRAOELOGATNHKGYSHAEH
Į.		l			i	EHAGLGVQGGNGALAFSNSGH
į.						RHAVPTISSGTGRRRTPSSSAFG
ŀ		1				LLNLHQWFVSGFQAFSDRLKA
		l				ALSASLLLRFGDSDWLPSSSAC
						KCLMLGLHFVIVGNICATLKEK
						YSSMLHLDVTMKKNGEKRTRL
1		l				QKRKKGMPPHPAYEDLNIAAIT
						LPANVVLHQPSGFRTSGQLDPV
						WWSLDTDAHEIWCQDPGLGSG
						DFPWEITPLSSYSLLHEKDPPTT
						SGPQT\TSPRNISPISNPRQRRQV
			İ			LSMDPKLRHRSRTGKAAFPWC
1		ŀ				LIIAGTPL
20391	50759	Α	20508	3	539	IVDDCGGAFTMGVIGGGVFQAI
i		i				KGFRNAPVCRLLSEAPLFIYSCS
				1		RSVSPTVNVSSERAESRPTLFM
						AVSLHMAWCLAHIGIRHRLRG
1		1	l			SANAVRIRAPQIGGSFAVWGGL
			ŀ			FSTIDCGLVRLRGKEDPWNSITS
						GA\LTGAVL\AARSAPLAM\VGS
						AMMGGILL/ALIEGVSILL/TR*T
						ATV
20392	50760	Α	20509	3	778	GEQRAALPPAPKECTHPNVTNT
						LVQAESSDAGVRLRWGRGLTA
						RPDASAMEEYAREPCPWR\IVD
				i		DCGGAFT\MGVIGGGVFQAIKG
1						FRNAPVGIRHRLRGSANAVRIR
	İ					APSTTGSFAVWGGLFSTIDCGL
						VRLRGKEDPWNSIT\SGA\LTGA
						VL\AAP\SGPLAMGGLQQ*WGG
						ILSAPHLRAFGILL\TR*TA\QQF
						RKWAPNSLEDP\SQ\LPPKDVT\P
						APGYP\SYQQYHLRKPLATMGA
						TSSVPFPDGSTLKGRAGFPG
20393	50761	A	20510	1	231	LRWRVWSLSLLMFRCVRSFFLL
		1	1	1	1	VGSWSRWFRSEAADLCGECYS
				1		S*GSTSGVVRFSRWACGLAGLR
			ļ			SEAADLAPPTSC
20394	50762	A	20511	318	494	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ 1D NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X-Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
		L				A CONTROL TO A TOTAL OF THE ACTION AND ADDRESS OF THE ACTION ADDRESS OF THE ACTION AND ADDRESS OF THE ACTION AND ADDRESS OF THE ACTION AND ADDRESS OF THE ACTION AND ADDRESS OF THE ACTION AND ADDRESS OF THE ACTION AND ADDRESS OF THE ACTION AND ADDRESS OF THE ACTION AND ADDRESS OF THE ACTION AND ADDRESS OF THE ACTION AND ADDRESS O
20395	50763	Α	20512	1	1234	MNMNIKKIVKQATVLTFTTALL
1						AGGATQAFAKENNQKAYKETY
İ	İ	1				GVSHITRHDMLQIPKQQQNEKY
ŀ	l	ı				QVPQFDQSTIKNIESAKGLDVW
	Ī	ł				DSWPQQNADGTVAEYNGYHV
		1				VFALAGSPKDADDTSIYMFYQ
						KVGDNSIDSWKNAGRVFKDSD
		l				KFDANDPILKDQTQEWSGSATF
		[TSDGKIRLFYTDYSGSLLRSQM
						PCADLSILKEAAETLDSTSTRNS
1		l				AFLGNTHDEAPIVHVFIPSLAYS
						TNIWSLIFNPTTMIMMCSRDWL
		l				SSCENKRVDLAFGLVYSGTPVQ
		l				KLEQMKFSPQLGCNHFESKDR
		1				NDFLFAPEEIEKDPQGESLLCDF
		1		1		MTKTPKAMATKAKIDKWDLIK
		1				LKSFCTAKETTIRVNKQPTEWE
1		l				KNFAIYPYDKGLISRIYKELKQI
1		1				YEKKIKQPHQKVDERRLLNLTT
		l				DRLTGEKAYRFIKVQVLRVTQ
	1	1				GMKIQRRARSKELQGDGDEIQR WKRLHSPPRLLGEEPHRIIFKLD
		1				SANDMHKSAPFSSLQSPLWHQF
		1			ŀ	VMQEVERQYKEKKDLVREGG
						KCRCOGRPGKVVLTELSLEAR
1						GGWMEDIPSRRTSKCGPWELV
						SHCVQNWWVLGLTDFKNEAS
						DPRGVKLQTFTVSVTALKAAR
		i				LELLVLPGGLVVSLASGVKLQT
		l				FAVSVTAHKRSVDPKTEGAGS
						GLGQPRKGLSQCSSGPKG*YPE
						STKNLNKFTRKKSNNPIKRLMK
20396	50764	В	20513	1	531	STRIKE TRACESTED TRACESTED
20397	50765	A	20514	1139	1562	GALQPTAALWEPLSGLAKARA
1-227		Γ.	I	1		GTLSLQGSVEGVA*AGTGAAC
						GACGPDGVPGGRGLGGPRTGS
l	1	1				SRPALSHFITEEDKDQRVQDQL
		l				GGVWHRMEIHEOHVGKOOEE
1		1	1			GDVEDHIPGEDHEGGGEERHIV
	1	l				PKOLLVLVDRFLPK
20398	50766	Α	20515	I.	1597	
20399	50767	Α	20516	461	1601	

SEO ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon,/=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
20400	50760	_	20517	 	914	I IMNNLRRAALRAVTLTAKVCSF
20400	50768	Λ	20517	I.	914	
						TPEPARPQTHQKEETPNTSEHQ
					i	KEQTPDTPPLRTVTLTARVHGFI
	1				1	LEVSETKNPPIPDTPATREAEGL
1					1	RSRLAVYSTRDSPCVACSGSYT
1					l	QAQGSLGRKFQDPVSLFEDLTK
						NTPEPNLRPITSKPVLVQETLSN
						FALFLKESNGP\VKVWGSH/IKG
						LT*KALHGF\HVH\EFG\DNTAR
						LYQVQGPHF\NPLSQKTTVGPK\
						DEESHC*DLGQCDCLTKNGVA
		1				DVSI*RFCESHSSGDHCIIG\RTL
						VVPWKKPDDFGQRVGNE\ESSK
						T/GNAGKSVWPCGVNWIAQ
2040 I	50769	В	20518	8	173	
20402	50770	С	20519	13	180	
20403	50771	Ā	20520	3	486	VTETWKCAGIPHRYRSFESC/IW
		1				NPVINSDRMDYAGPVCFKNADI
						GRCAHEKLRED*DGAAPGEIGI
						QPEADATPYFATPTPVLTHGPC
			ľ			AAESEPALLIGSKQFGLSRNSHI
				1		AIAFDDTKVKNRLTIELEVRTE
						AEFRLLFYMARINHADFATVQL
						RNGLPY
20404	50772	A	20521	1	459	
20405	50773	A	20522	2	239	SDSSGSREVDPVAATTMPGAA
1	1					GVLLLLLLSGGLGGVQAQRPQ
						QQRQSQAHQQRGLFPAVLNLA
1		1				SNALITTNATCGEKGPEMYCKL
	1	1			l	VEHVPGQPVRNPQCRICNQNSS
1		1		1		NPNQRHPITNAIDGKNTWWQS
		1				PSIKNGIEYHYVTITLDLQQVFQ
1	i	1			i	IAYVIVKAANSPRPGNWILERSL
					i	DDV\EYKAWQ*H\AVT\DTEAL
1		1			1	TP*PN*SPELGHRQNAQD*\EVI
						CTSFYSKIHPLENGEIHISLINGR
		1			l	PSADDPSPELLE
20406	50774	Α	20523	2	445	
20407	50775	A	20524	I	2765	MGRRRLLVWLCAVAALLSGA
		1	I		1	QARGTP\PWRGLR/LPGASRYSL
			I		1	YTTGWRPRLRPGPHKALCAYV
			l		1	VHRNVTCILQEGAESYVKAEY
		1	l		1	RQCRWGPKCPGTVTYRTVLRP
			l			KYKVGYKTVTDLAWRCCPGFT
		1	l		1	GKRCPEHLTDHGAASPQLEPEP
			l		1	QIPSGQLDPGPRPPSYSRAAPSP
			1		1	HGRKGPGLFGERLERLEGDVQ
					1	RLAOTYGTLSGLVASHEDPNR
		1			1	MTGGPRAPAVPVGFGVIPEGLV
		1	1			GPGDRARGPLTPPLDEILS
L		Ь.				OL OPIVIKOLE IL LEDEIES

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20408	50776	A	20525	2	363	RFTKVEMKEKIMLSAAREKGR VTHKGKPISLKADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEQEIKYFTDKQMLRDFV ITRPALKELLKEALNMERNNW YQPLQKHAKL
20409	50777	A	20526	1	1566	
20410	50778	A	20327	ı	1604	MAILFEMELGOGSSAKFFGFOS SFFPVIPNIKPSGGFKRDRAHFS STRLLWPDCQISQLWGGYLRK KOSSPSQGLIKN TESPWKKAPR KOSSPSQGLIKN TESPWKKAPR ERGGGGRSFSRFKHPCLTALKR AADLPAQIISSSAKDTSQKGPTD TSYFRALAGIMOVPPLGRSFOK KDQAAIFAVVOPLQVIPRQTGS GVDLQQTSADWQQRGLTVRR KTNKQKGIACSLKDPIRGHOHQ RFKDHNISPAREQNWTENEFD KLTEVGFRRWVITNSSELKKHV LTQCKDAKNLERSLEELLTRIPS VEKNINDLMELKNTARELEAL TSFNSPIDQAEERISVIEDQFN KINREDKIKEKRIKRNKQSLQEI MOYVKRPNLGLIGVPESOKEN GTKLENTLQNIIQENFPNLARER NIQGENQRFPNLSKRENKLKAVRE KGRVTTHKGKPIRLTTADLSAET LQARROSGGYFNIL*RKGIFQP RISYPAKLSFISEGEIKYFIDKU
20411	50779	A	20528	58	1081	SSMAKPCGVRLSGEARKQVEV FRQNLFQEAEFLLRIFLPQKII YLNPASFQEDFFRNVA*/LLNLS SGAPLGHPIPRPLHPKDDEME TDKAGRREVP*SVGFPWGN* GKFL\SLVCPGLKPE\VWDFSK KVELGLHW\QTPDSPRFEDON DFGGSQSRKKVLEKG*MPVKT KVEAFQTTISKYFSSERGDAC GPPPKETHVMDVRALVHERD EAAYGERAMVLDLRAFYAEI VKSSGIGAHVSFKVQNIHSSYC SGFTVSFTCVTGLPASQSPBG AQLASSGSHTCAAGGAACQS RALRLHSSALGWSMGLGTVEQ GAALIEEVQAAQEPTEG

SEO ID	SEO ID NO-	Me	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
20412	50780	A	20529	1632	1932	KEGCELCRCCCRPGPPASSHGQ
20412	50780	l^	LUJE	1032	1732	PHHVFPH/VLSMASPWAVSPSS
			l			VNVSQFFIC/TCQDAKTEWLDC
		1				KHVVFGKVKDGMNIVEVMEH
						LGSKNGKISNQQEDHHC
20413	50781	A	20530	245	740	GAWKARSDCSSNP*NYVNRLE
20413	50761	l^	20330	243	7-10	LFADKVPKTAEKF\QALSTGEK
						GFGYKGSL\FHRIIPGF\TCQSGD
						FTRPYSIGGKSHLPGRNLMTRT
			l			FILKHTGPGILSMANAGPSVNV
						SQFFI\CPAKMPRTEW\LDCKHV
			l			VFGKVKDGMNIVEVMEHLGSK
İ						NGKISNQQEDHHC
20414	50782	A	20531	135	1427	GKPTFASRQQPLAEECPASSAL
20414	30782	l^	20331	133	1427	QRRWLWRWRWWLRRRRRQR
						RSSGSCQGQPAGPLGGPPANRG
Į.			ŀ			AAPQGSMAMNYNAKDEVDGG
l .		l				PPCAPGGTAKTRRPDNTAFKQQ
		1	İ			RLPAWOPILTAGTVLPIFFIIGLI
			l			FIPIGIGIFVTSNNIREIEIDYTGT
		1				EPSSPCNKCLSPDVTPCFCTINF
		1				TLEKSFEGNVFMYYGLSNFYO
						NHRRYVKSRDDSQLNGDSSAL
		1				LNPSKECEPYRRNEDKPIAPCG
1		1			1	AIANSMFNDTLELFLIGNDSYPI
		1				PIALKKKGIAWWTDKNVKFRN
1		1				PPGGDNLEERFKGTTKPVNWL
		1				KPVYMLDSDPDA*WIHK\DDFI
1						VWMRTAALPTFRKLNRLIQRK
1						SDLHPTLPAGRYSLNV\NAYYP
1		l		ł		VHYFDARKRMIMSAISWMGGK
						NPFLGMAYFAVGAISFHLGVAL
		1				LGINHKYRNSSNTADITI
20415	50783	A	20532	1	370	
20416	50784	A	20533	1	1104	LREFANFDFDIWRKKYMRWM
						NHKKSRVMDFFRRIDKDQDGK
			1	l		ITRQEFIDGILSSKFPTSRLEMSA
		1				VADIFDRDGDGYIDYYEFVAAL
						HPNKDAYKPITDADKIEDEVTR
						OVAKCKCAKRFOVEOIGDNKY
		l		l		RFGDSQQLRLVRILRSTVMVRV
		l				GGGWMALDEFLVKNDPCRAK
						GRTNMELREKFILADGASQGM
		1		1		AAFRPRGRRSRPSSRGASPNRST
1		1	1	I	1	SVSSQAAQAA\SPQVPATTTPK
						GTPIQGSKLRLPGYLSGKGFHS
		1	l	l		GEDSGLITTAAARVRTQF\ADS
		1		I		KEGLPSRPGSSSLEAKFGSR\AS
		1	1	1		SRRGSDASDFDISEIQSVCSDVE
1		1				TVPQTHRPTPRAGSRPSTAKPS
1		1	}	l		KIPTPQRKSPASKLDKSSKR
L						

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
				Sequence		
20417	50785	В	20534	527	4627	
20418	50786	Α	20535	37	315	
20419	50787	A	20536	1314	1577	HGSGSAPTCRWPRTQGRCREIC
						ADGFSGVMRNCTG*EAASGR*
						CKSFVHVYLQLRCACSVCHSA
		1				GSDSFQLQRSPHTPSTCTHALV
20420	50788	A	20537	1	1652	MQATKTESGRNGKPGQPSNRC
						HYLLNQGWVANSGKGGRTNIP
						DKELKSGDDPENVHITSFQYLA
						LAAFPRGRARDLQLAMTEPPHP
			i		i	SVGSCAARASLTSAAPCSTAPSP
	1					INHPKAEECGCTARDWQAAPP
						AARVRDPLGEASWAPESEYVC
						NCSVVGSLNVNRCNQTTGQCE
		ŀ				CRPGYQGLHCETCKEGFYLNY
		İ				TSGLCQPCDCSPHGALSIPCNSS
						GKCQCKVGVIGSICDRCQDGY
	İ					YGFSKNGCLPCQCNN\RSARCD
		ı			i .	ALTGACLNCHENSKGNHCEEC
						KEGFYHSPDATKECLRCPCSAV
	ŀ					TSTGSCSIKSSELEPECDQCEDG
						YISPNCNKCENGYYNFDSICRK
	ŀ					CQCHGHVYLISTPKICKPESGEC
						INCLHNTTGFWCENCL*GYVH
						DLEGNCIKKEVILPTPEGSTILVS
			ŀ			NASLTTSVPTPVINSTF\TPT\TL*
					1	TIFSVSTSENSTSALADVSWTQF
						NIILTVIIIGVVLLMGFEGAGY
						MYRENQNRKLNAPFWTIELKE
						DNISFSSYHDSIPNADVSGLVED
						DGNEVAPNGQMTLTTPIHNYK
20421	50789	Α	20538	1	177	
20422	50790	Α	20539	1	480	
20423	50791	A	20540	410	896	FSCLKRMHIKAMPEDAKGQDW
		1				IALVKAAAAAAAKNKTGSKPR
						TSANSNKDKDKDERKWFKVPS
						KKEETSTCIATPDVEKKEDLPTS
		1		1		\SETFGLHVENVPKMVFPQPEST
						LSNKRKNNQGNSFQAKRARLN
		1				KITGLLASKAVGVDGAEKKED
		l	l .	I	I	YNETAPMLEQV

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
	ł			sequence		
20424	50792	A	20541	1	1526	LKDEEDFFDFKAGEEVLARWT
20424	30172	<u> </u> ^_	20541	ľ	1520	DCRYYPAKIEAINKEGTFTVOF
		l				YDGVIRCLKRMHIKAMPEDAK
					ľ	GOVKSOHPLSWCCPIDPAGSCN
		1			1	OSMGSEDWIALVKAAAAAAA
		1				KNKTGSKPRTSANSNKDKDKD
		ŀ				ERKWFKVPSKKEETFNLLLATP
		l				DVE/RRKEDLPTSS/EKHL*GLH
		1				VRRNVPKMVFPOPESTLSNKRK
	1				1	NNQGNS\FQAKRARLNKITGLL
	İ	l				ASKAVGVDGAEKKEDYNET\A
	1	1				PMLEOA\ISPK POSOKKNEADIS
1		1				SSANTOKPALLSSTLSSGKARS
		1				KKCKHESGDSSGCIKPPKSPLSP
		l				ELIQ\VEDLTLVSQLSSSVINKTS
		l	ŀ			PPOPVNPPRPF\KH\SERRRRSOR
	İ	1				LGTLP\MPDDSVEKVSSPLSSPL
İ	ł					D/EGKVFS/LSSSSKISQESSS/IPE
]			l		VPDVA/HICPLEKLGPCLP\LDLS
		l				RGSEVTAPVAS\DSSYRNECPRA
						EKEDTOMLPNPSSKAIADGRGA
	l	l				PAAAGISKTEKKVKLEDKS\STA
	İ					FGIRSWDFSALLMKIPSYSPISLS
				i		GLPES
20425	50793	A	20542	363	1187	FHITMCGICCSVNFSAEHFSQDL
						KEDLLYNLKORGPNSSKOLLKS
					Į.	DVNYOCLFSAHVLHLRGVLTT
						OPVEDERGNVFLWNGEIFSGIK
1		1				VEAEENDTQILFNYLSSCKNES
1		1			l .	EILSLFSEVQGPW\AFIYYQASS
					i	HYLWFGRDFFGRRSLLWHFSN
		1			l	LGKSFCLSSVGHPNIWNWQISG
		1			I	KKFQHLDFFRIDLKSTVISRCIIL
	1				I	OLYPWKYISRENIIEENVNSLSQ
					l	ISADLPAFVSVGSQMEGQTVSL
					1	EKPVVPLNMDVATSWHWETH
	1	1			1	AVFFPCATYR

SEQ ID NO:	SEQ ID NO: of peptide	Met	SEQ ID NO: in USSN	Nucleotide location of first	Nucleotide location of last codon for last amino acid	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
NO:	sequence	noa	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
	order nec			sequence	. , . ,	,
20426	50794	Α	20543	1140	2372	CCHKLHWRLIAVIFPMCHLQER
1						YFKSFLLMYT*KEVIQQFIDVLS
						VAVKKRVLCLPRDENLDSQME
ļ	Ì	ĺ				VLENV**GKANVGNPVFWGGL
						D/CPWLLATLLDRHIPLDEPLVL
i						LNVAFIAEEKTMPTTFNREGNK
						QKNKCEIPYPKNFSKDVAAAA
						ADSPNKTCQC\PDRITGRAGLK
1						ELQAVSPSRIWNFVEINVSMEE
l						LQKLRRTRICHLIRPLDTVLDDS
1						IGCAVWFASRGIGWLVAQEGV
						KSYQSNAKVVLTGIGCRWSNL
						QGYSPSSVSAFKSHGLGRIGIKE
						IMMELGRISSLEILGRDDR\VIG
		į	1			DHGKEARFPFLG*/RMLSPFLNS
						SARFGEKANLDFTPRGIGEKLPF
		ļ				NALQPVELG\LTASALLPKRAM
	ŀ					Q\FGSRIAKMEKINEKASDKCG
						RLQIMSLENLSIEKGTKL
20427	50795	В	20544	70	464	
20428	50796	Α	20545	18	552	
20429	50797	Α	20546	1	1257	
20430	50798	В	20547	223	342	
20431	50799	Α	20548	9	5293	KIHRHRLSPATEKGAASSGEGD
						KDPPPPAHEDIAVKGTATAAGT
						GPGTGAAAAAAAAAVPPPHPNI
		l				RALQTQAPQQIPRGPVQQPLED
		l				RIFTPAVSAVYSTVTQVARQPG
		ı				TPTPSPYSAHEINKGHPNLAATP
		ļ				PGHASSPGLSQTPYPSGQNAGP
1		1				TTLVYPQTPQTMNSQPQTRSPF
1		l				FPKGLKIQPP\RATIPNSKSFPFV
	į.	l				PGAQTPTAVYQG*FRHIM\M\V
		l			Į.	NHLPLPYPVPQGPQYCIPQYRH
		-				SGPPYVGPPQ
20432	50800	A	20549	1	78	MANGEMENSI CHI CHI I CHI
20433	50801	Α	20550	11	2805	MAKGFYISKSLGILGILLGVAA
1		1	I	1	1	VCTIIALSVVYSQEKNKNANSS
		1	1	1		PVASTTPSASATTNPASATTLD
	l					QSKAWNRYRLPNTLKPDSYRV
		1		1		TLRPYLTPNDRGLYVFKGSSTV
1	l	1			I	RFTCKEATDVIIIHSKKLNYTLS/
	l	1		1	1	QGHRVVLR\PPDIDKTELVEPTE
	l	1		1		YLVVHLKGSLVKDSQYEMDSE
	l					FEGELADDLAGFYRSEYMEGN
		1		1		VRKVVATTQMQAADARKSFPC
		1	1	1	l	FDEPAMKAEFNITLIHPKDLTAL
20.12.1	50000	Ļ.	20551	ļ. —	220	SNMLPKGPSTPLP
20434	50802	A	20551	1	239 654	
20435	50803	Α	20552	ļ'	034	

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleutide location of first codun fur peptide	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X-Unknown, *=Stop codon, /=possible nucleotide deletion, \-possible nucleotide insertion)
				sequence		
20436	50804	Α	20553	161	3193	GSLSRLPTITMAKGFYISKSLGI
		1				LGILLGVAAVCTIIALSVVYSQE
		l				KNKNANSSPVASTTPSASATTN
i						PASATTLDQSKAWNRYRLPNT
l						LKPDSYQVTLRPYLTPNDRGLY
1		1	l			VFKGSSTVRFTCKEATDVIIIHS
1		l				KKLNFP\LSQGHRVVLRGVGGS
		l				QPPDIDKTELVEPTEYLVVHLK
		ĺ			i	GSLVKDSQYEMDSEFEGELAD
		l				DLAGFYRSEYMEGNVRKVVAT
		1				TQMQAADARKSFPCFDEPAMK
		1				ARF\NITLIPPQGT
20437	50805	Α	20554	3	429	
20438	50806	Α	20555	3568	4012	VLSTSFPGTELNPPISPLAVNSTE
		1				LLKGELSLSSLGVLSLSDTSVPN
						SVSNSFLLGLRKRLGRGVGISCS
						NALSALDLAACNFSLMRPLME
						NSAKPVLEVEGIGG/TAFDAGA
1					l	GIALSDHFIKLISWYDNEFGYSN
						RVVDLMAHMASKE
20439	50807	A	20556	1	1211	QTAASSFASPGEPHRSNTMGKV
		t	i	i		KALVNGFDRIGRLVTRAAFNSG
		ŀ				KGDIVAINDPFIDLNYMVYMFQ
ļ		ŀ				YDSTHGKFHGTVKAENGKLVI
l					i	NGNPITIFQ\ERDPSKIKWG*H\G
						AEYVV\ESTG\VFTTM\EKAGAH
						FAGGSQKGHSSFAPSTEAIMFM
		ı				MKVNYEKYDNSLKIISNASCTT
						NCLAPLAKVIHDNSGIVERLMI
						TVHVITTTQKTVDGPCRKLRPD
	1	1		1		GHRALQNIIPASTSTAKAMVKV
		1		1	1	IPELNKKLTGMASHVPTAKVLV
		1			l	VDPTCH/LGKPAKYYDIKKMM
						KQASEDPIKGILGYTEHQIVSSD
					1	FNSDTQSSTFDAGAGITLNDHF
						VK\LISWYDNEFGYSNSVVDLM
	·					AHVASKELSGYSLKVSFAVQK
		1				LFSLIRSNLSIIAFDAIVFGVFVM
20110	50000	ļ.	20557		300	KSLPVSICRM PTANVSVVDLTCRL*KPAKYD
20440	50808	A	20557	1	1300	DIKKVVKQASEGPLKGILGYTE
1						HQVVSSDFNSDTHSSTFDAGAG
						IALNDHFVKLISWYDNEFGYSN
1					i	RVVDLMAHMASKE
20441	50809	A	20558	1	3399	K. I DENIAIINAOKE
20442	50810	Α	20559	1	3126	
20443	50811	С	20560	298	435	
20444	50812	Α	20561	1	888	
20445	50813	В	20562	1	4536	

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last eodon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20446	50814	Α	20563	37	3900	LGLGLSMLVGQGAGPLGPAVV TAAVVLLLSGVGPAHGSEDIVV GCGGFVKSDVEINYSLIEIKLYT KHGTLKYQTDCAPNNGYFMIP LYDKGDFILKIEPPLGWSFEPT TGFSVNGKVLSKGQPLGPAGV QVSLRNTGTEAKIQATATQVPG GKFAFFKVLFQDYEILATHPTW ALKEASTTVSVTNSNANAASPL IVAGYNVSGSVRSDGEPMKGV KFLLFSSLVTKEDVA
20447	50815	A	20564	1	310	EEETVPTTAGASPGPPRNKKNR ELRPQRPKNAYILKKSRISKKPQ VPKKPREWKNPEPSAAAS*GGE GQAHGGPAICPGQICALSQTPG LPGNSLSPRSPVGK
20448	50816	A	20565	3	267	
20449	50817	В	20566	267	560	
20450	50818	А	20567		429	LIGLDPEPLAEVDVISLEQGRRK QIERLGYDPQAKAPFQPKPKQK GRSSTASLVKRKRKVMDEENNR VK*TIGNGPGLPKGCTLPACAL CPCQPAHFLTLCPVSLPSPVPQD KVRQSLQQQHHKEAK/APKPTG ARPSALDRFVR

2628

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nuclcotide location of last	Amino acid sequence (X-Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
20451	50819	Α	20568	2	1951	FKPTVWQLRGVLHVDRLFVWA
						SMETAPKPGKDVL\SKKDKLQT
1						KRKKP\RRYWEEETVPTTAGAS
ŀ						PGPPRNKKNRELRPQRPKNAYI
i						LKKSRISKKPOVPKKPREWKNP
1						ESQRGLSGAQDPFPGPAPVPVE
						VVOKFCRIDKSRKLPHSKAKTR
						SRLEVAEAEEEETSIQSLLRSEL
ļ		1				LLAEEP\GFLEGEDGEDTAKICO
		l				ADIVEAVDIASAAKHFDLNLRQ
						FGPYRLNYSRTGRHLAFGGRRG
						HVAALDWVTKKLMCEINVME
1						AVRDIRFLHSEALLAVAQNRW
İ						LHIYDNQGIELHCIRRCDRVTRL
1	1					EFLPFHLLLDTASETGFLTYLDV
						SVGKIVAALNARAG\RLDVMSQ
l						NPYNAVIHIGHSNG\TASLWESS
		1				YGREPLAK\ILC\HRGLGSGAVA
1						VDSYRHVTWATSGP*DHQLED
l		1				LFDFARGRY\QPLEHSGPCPMG
		1				AGHLAFSQRELL/VLAGLGDVV
1						NIWAGQGKASPP\SLDRPYFTH
1		l			1	RV*GPVHGLQFCPFEDVLGVG
l		l				HT*G\ITSML\VPGAGEPNFDGL\
						ESNP\YRSRKQRQ\EWEVKALL
1						EKVPAELICLDPRALAEVDVISL
		1				ETGKRRKQIERLGYDPQ\AKAP
				1		F\QPKPKQKG\RSSKA\TLVKRK
1	ĺ	1				RKVMIEDHKG/DKVRQSLQQQ
						HHKEAK\AKPTG\ARPSALDRF
20452	50820	A	20569	1	437	
20453	50821	Α	20570	157	425	

2629

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN 09/540,217	location of first	codon for last amino acid of peptide sequence	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide sequence	or peptide sequence	deletion, \=possible nucleotide insertion)
		1		acqueine.		
20454	50822	A	20571	207	1562	LVIVFFYPOHTAPGPPLTVLNO
						AMHARGPHGOLSPALPLASSVL
		l	l			MLLMNLAHLGQPWMLGPLTW
		l				HISPFSLPVHRLLTHALGHTALP
		l				GLLLSLLLLPTVGWQQECHLGT
		l				LRFLHASALLALASGLLAVLLA
1		l				GLGLSSAAGSCGYMPVHLAML
						AGEGHRPRRPRGALPPWLSPW
						LLLALTPLLSSEPPFLQLLCGLL
1						AGLACILCLSPGPVGMCGFCG
						WVPGKEVAQRGEGPSNTKEPC
		1				THIAWPVAWAHPWLLLVFLDR
		1				PPCPGQTDAAGAFRWLEPSERR
		l				LQVLQEGVLCRTLAG\GMPVQ
					1	VVGTVAGLPVRPSSLP/SSSRPPI
						PGPPYVASPDLWSHWEDSALPP
		1				PSLRPVQPTWEGSSEAGLDWA
		1			İ	GASFSPGTPMWAALDEQMLQE
1					l	GIQASEVGSPGIGAGVALTLPTS
						PPTPNRLQQLERMGFPTEQAVV
						ALAATGRVEGAVSLLVGGQ
20455	50823	Α	20572	460	916	AHSPRDHPWTVLNQAMHARGP
						\HGQ\LSPALPL\ASSVLMLLMST
1						LWLVGAGPGLVLAPELLLDPW
						QVHRLLTHALGHTALPGL\LLS
						LLLLPTVGWQQECHLGTLRFLH
				1		ASALLALASGLLAVLLAGLGLS
		l	1			SAAGSCGYMPVHLAMLAGEG
			1			HRPRRPRGALPPWLSPWLLLAL
				1		TPLLSSEPPFLQLLCGLLAGLAY
		1				AAGAFRWLEPSERRLQV\LQEG
				1		VLCRTLAGCWPLRLLATPGSLA
	İ	l	1			ELPVTHPAGVRPPIPGPPYVASP
						DLWSHWEDSALPPPSLRPVQPT
		1	ŀ			WEGSSEAGLDWAGASFSPGTP
					1	MWAALDEQMLQEGIQA\SLL\D GPAQEPQSAPWLS\KSSVS*MR
		1				LQ\QLERMGFP/TTEAAVVALA\ ATGRVEGA\VSLLVGGQSGT\ET
		ļ				LVTHGKGGPAHSEGP\GPPWAN
l .	1					
1		l			1	CPQHCLLASSVLMLLMSTLWL VGAGPGLVLAPELLLDPWQVH
		1	ł			RLLTHALGHTALPGLAPEPAAP
		1	1	1		AHCGLAAGVPPGHAEIPACLSP
		l				ARPGFWAAGSAAGRPWAVQCS
		1			1	
20456	50824	-	20573	174	401	RQLWIHACPPGHAGWGRTPP CTVVFSVLAELSCTSRFCPNMW
20430	30824	A	20373	174	401	TPLREPMTENGRWGLSVRVLE
1		1	l	l		HGGNQSNSACGPEPPEGEMGS*
		1				LEED*LPALIP
L	Ь				l	LLLD LIALII

SEQ ID NO:	of peptide sequence	hod	SEQ ID NO: in USSN 09/540,217	location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20457	50825	A	20574	450	1029	ATQLPPQPWQTPAALGWAAAT SLMPYRAPSPPARAQHPPALCL APPPPLWLQLPHLEASHSLVEA RPNPPVSTLAQQGIQPSPRHLPR CPSLRPRQQPPQQVP/PQPAAPT PTATITSTOPSLFASIATAFTSSA TTGLSLCTPVTTAGAPTAGTQG FSLKAPGAA\PAPPQQHPPLPPP PPPPPAAAPPALP
20458	50826	С	20575	115	276	
20459	50827	A	20576	3		ASRLGPREGGARKNPGGPCSAT QYISVPSP'GAASFPVLGSQSLLT TVSPPLPA*P/LAMAL*PRPLCA PGPSPRSPRLRSPLPPSFFSRGRR RLSLLQPWSE
20460	50828	Α	20577	2	388	
20461	50829	С	20578	244	487	
20462	50830	В	20579	5	569	
20463	50831	A	20580	204	676	RTDOYPORGETEEGLEGGLLPH RQLPGGLGAHRGPDPACGLRD SSRGVPLAGSPLRVR*GRGHDL RQSGGVRPGGGSNRGLVVAGD ARGRAAPLAGGVPAAADRSRL PGVPAAREPHGPTPAPDPDSAA EPGAVSTLRAEPTPQPVVSTGC CSSTWN
20464	50832	В	20581	1	1413	
20465	50833	В	20582	60	224	
20466	50834	В	20583	8	2469	
20467	50835	A	20584	841	1436	HHQYPLPYGRERGGKROPGSW ETCLSVLGPAIPPSEPWPVSPSW VHSLYPGEQALPLJCSQPPMAP QWPETGPCPHLJHRTCRVCLN WQGMTRTRGYQAGPSSRRTIPT PAQLPAPLASLPPRQDPPSSPAE PPSGRSMEPWWEPARHPPGSP AAPCSSHRIT/APPTPSLAAQPG/ VGSWPPLSPEGLCLAGTPACG W
20468	50836	A	20585	1799	5195	SKONGSPSTTOTOTPRAAPDGS LSEETPAGPPTCSVPPASALPRQ QYAKSLPVSVPVWGFKEKTE ARSSDEENGPKPKPASVDANTK LITRSLPCQGSLKRATSCERAGK AVGEEVSGYSLHGCSKERRRRP RLKKEGGSGEPGVGYLFISVLV NSNSELIRLINNAIKNDLASRNP TFMCLALHCIANVGSREMGEA FAADIPRILVAGDSMDSVKQSA ALCLLRLYKASPDLVPMGEWT ARVVHLLNDQHMGV

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
1.0.	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence	' '	
20469	50837	Α	20586	8	268	SRSSRTWSPIPEKEKTKLQKQR
						EDELIQKIHKLVQKRDFLVDDA
ł		1	l			EVERLREOEEDKEMADFLRIKL
						KPLDKVTKSPPI*QSQRAHL
20470	50838	С	20587	50	196	
20471	50839	A	20588	16	1263	SLSSRCMMVAEQGCALEPCQG
1						LSHGAALGVLMVVFP/VSSLOO
						DQLDIIS\MAETT\MMP\EEIELE
ŀ			ŀ	ļ		MAKIORLREVLVRRESELRFMS
						FEEOYNEDHKKGVIDLFTADSL
1		1				KTMTRLVTGVWLAYLAATASN
1						PLQEGEHAGEQIGAGGCRSRLE
		l				GGALTWDPVLLPPVRISRMLLL
		l				LLIPGELPGIAFKLMNPTKAEPM
						HMFIILEPFDLRKLMDDIQLCK
l						DIMDLKQELQNLVAIPGCTRSM
			ŀ			MLVSAQLLEGLRKLIIMAEDKG
1		1				ADMSRAQSRSKRPPKMLICLLV
						DVFFPEKEKTKL\OKOREG*AN
1		l				PRRFHKLVQKRDFLV\DDAEVE
						RLR\EQE\EDKEMADFLRIK\LKP
1		l				LDKVTKSPASSRAEKKAEPPP\S
l		l				KPTVAKTGLALIKDCCGATOC
		l				NIHVSPHVGCPGPWGPPPTLLS
20472	50840	A	20589	31	339	MILVSFILVGELGE WEITH TEES
20473	50841	A	20590	1	1179	
20473	50842	A	20591	1	1167	PARSMAATSLMSALAARLLQP
20474	30042	<u>۱</u> ^	20391	['	1107	AHSCSLRLRPFHLAAV/RGNLSL
1		l				GQVGVQCCNHGLLQP*PPGLK*
		l				SSHLSLNEAVVISGRKLAQQIK
		1				QEVRQEVEEWVASGNKRPHLS
		l		i		VILVGENPASHSYVLNKTRAAA
1		l				
		l	ĺ			VVGINSETIMKPASISE\EELLNL
		l				INKL\NNDDNVDGLLVQLPLPE
		l				HIDERRICNAVSPDKDVDGFHV
1		1				INVGRMCLDQYSMLPATPWGV
		1				WEIIKRTGIPTLGKNVVVAGRS
		1	1			KNVGMPIAMLLHTDGAHERPG
	1		1			GDATVTISHRYTPKEQLKKHTI
			1			LADIVISAAGIPNLITADMIKEG
		1				AAVIDVGINRVHDPVTAG\PGL
		1	1	l		VGNVDFEGVRQKAGYIT\PVPG
		l				GVGPMTVAMLMKNTIIAAKKG
						AEA*RSEKVLKSKELGVATN

SEQ ID	SEO ID NO:	Met	ISEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	l	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
		1		sequence		
		<u> </u>			L	
20475	50843	A	20592	1	1963	MAASDVNCGACFAELQGNATA
		1				NTPGGTSHHTHLAIHGSCHDSQ
		1				AKEAGRKRQPWPPPDGRSEPAP
		1				DSHPHLSPEALGYFRRALSALK
						EAPETGEERDLMVHNIMKEVE
		1				TQALALSTNRTGSEMLQELLGF
		l				SPLKPLCRVWAALRSNLRTVAC
		l				HRCGVHVLQSALLQLPRLLGSA
		l				AEEEEEEEDGKDGPTETLEEL
		l				VLGLAAEVCDDFLVYCGDTHG
		l				SFVVRTLLQVLGGTILESERARP
		l				RGSQSSEAQKTPAQECKPADFE
	İ	1				VPETFLNRLQDLSSSFLKDIAVF
		1				ITDKISSFCLQVALQVLHRKLA
		1		l		QFCAHICNAVIGYLSARGSSVD
		l				GKPLLLFLRDQTSFRLLEQVLL
		1				VLEPPRLQSLFEEHLQGQLQTL
		1				AAHPIANFPLQRLLDAVTTPEL
1		1			1	LSPVFEELSPVLEAVLAQGHPG
		1		l		VVIALVGACRRVGAYQAKVLQ
		l				LLLEAFHCAEPSSRQVACVPLF
1		1				ATLMAYEVYYGLTEEEGAVPA
1		1				EHQVAMAAARALGDVTVLGSL
		1				LLQHLLHFSTPGLVLRSLGALT
1		1		l	l	GPQLLSLAQSPAGSHVLDAILTS
		1				PSVT\PSCAAVCLQNLKGTNIVA
		1				LACKSP*QPRVLKCHLEWSSLE
		1		1	l	GP/RRKIAAELGEQNQEL\KEPP
		ı		l		FGHHVARNVALTTFLKRREAW
1		1				EQQQGAVAKRRALNSILED
20476	50844	Α	20593	55	393	
20477	50845	Α	20594	150	379	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide		Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
20478	50846	A	20595	I	2408	MGVWGIRTPFMVVGLESPVGS
						SPRGQGSCVRLPQRRPDKSHAG
						ARTGPETLRERAQOSNKLPEW
						AEKGSHPARWSPNRGGRWTLP
		1				TARERRPSRALKARAAGRRQA
	1	1				KVADFRLPAAAPPEGAAQLRLE
		1				SERLPHQDEKEPSSYRGSCGSCF
	l .	ı				VTLRKMPYLGSEDVVKELKKA
		1		1		LCNPHIQADRLRYRNVIQRVIR
		1				YMTQGLDMSGVFMEMVKASA
		1				TVDIVQKKLVYLYMCTYAPLK
						PDLALLAINTLCKDCSDPNPMV
				l .		RGLALRSMCSLRMSKLDQWGQ
						AEVLNFLLRYQPRSEEELFDILN
		i				LLDSFLKSSSPGVVMGATKLFLI
		1		1		LAKMFPHVQTDVLVRVKGPLL
	1	1				AACSSESRELCFVALCHVRQIL
				1		HSLPGHFSSHYKKFFCSYSEPH
		1				YIKLQKVEVLCELVNDENVQQ
		ı				VLEELRGYCTDVSADFAQAAIF
		1				AIGGIARTYTDQCVQILTELLGL
						RQEHITTVVVQTFRDLVWLCPQ
	1			1		CTEAVCQALPGCEENIQDSEGK
		1				QALIWLLGVHGERIPNAPYVLE
				ı		DFVENVKSETFPAVKMELLTAL
		1		1		LRLFLSRPAECQDMLGRLLYYC
		1				IEEEKDMAVRDRGLFYYRLLLV
					1	GIDEVKRILCSPKSDPTLGLL\ED
		1				PAERPVNSWASDFNTLVPVYG
	1	1				KAHWATISKCQGAERCDPKLP
	ŀ	1				KTSSFAASGPLIPEENKERVQEL
						PDSGALMLVPNRQLTADYFEK
20479	50847	В	20596	330	2458	
20480	50848	A	20597	32	171	LOLAKLGDWRMQALRHVHCR
20481	50849	I ^A	20598	32	1040	FTEG*FMYSL*LTFPPAGYQVT
		İ				GVFMKNWDSL\DEHGV\CTAD
						K\DCE\DA\YRVCOIL\DIPF\HOV
	1					SYGTEVIFFYSSDFLNEYEKGRT
i						PNPDIVCNKHIKFSS*SLCSKNL
						TGADAIATGHYARTSLEDEEVF
						EQKHVKKPEGPASWRNCLSVG
		1				WFLYTLGORANIGGLREPWYV
		1	l			VEASPPSHSILQAPRTDHPALYR
		1				DLLRTSRVHWIAEEPPAALVRD
		1				KMMECPPPRAPLFYPVPCVLTL
		1				
				1	Ι.	NQDGTVWVTAVTPDARVSPLQ FAVFYKGDECLGSGKILRLGPS
	1	1	1		1	
	1			1		AYTLQKGQRRAGMATESPSDS PEDGP\GLSPLL
20.400	50050	+	20500	12	432	PEDGPIGLOFIL
20482	50850	A	20599	12	432	1

SEQ ID NO:	SEQ ID NO: of peptide	Met	SEQ ID NO: in USSN	Nucleotide location of first	Nucleotide location of last codon for last amino acid	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	delction, \=possible nucleotide insertion)
20483	50851	A	20600	2	509	RLHSLLGDYYQAIKVLENIDLS TKSMYSRVPECQVTTYYVCF AYSMMRCYQDAIRVFASILLVI HRTNSMFQRTKYKYEMIIMLN EQMHALLAIALTMYPMRNDESI YLHLREKYVDKMLRMQNGDL QVYEELFRYSCTKFLPVPPNY
						DTVHAHYHTESFLQSLRR
20484	50852	В	20601	8	1188	
20485	50853	A	20602	I	257	
20486	50854	В	20603	210	312	
20487	50855	С	20604	13	288	
20488	50856	А	20605	13	446	IPVRPTRPADDYESEAAYDPYA YPSDYDMHTGDPKQDLAYERQ YEQQTYQVIPEVIKNFIQYFHKT VSDLIDQKVYELQASRVSSDVI DQKVYEIQDIYEMDAVFLILYK ELYYRHIYAKVSFQSFSQYRCK TAKKSEEEIDFL
20489	50857	В	20606	77	611	
20490	50858	A	20607		1956	SIVDPRVRPRVRVLASEAAMS YPADIDYESEAAYDPYA\YPSD YDMHTGDPKQDLAYERQYEQ YOTYQVIPEVIKNFIQYFHKTVS DLIDQKVDELQASPCLQVIVID QERLYEDSRTIY*EQAWTKL\TE RFFKKNTPWFGGWKPLVPQGLA MDAYSFLDFYPKNYTYRHIYA KVSGGPSLEGRFESYYNYCNL FNYILMADGSRSPLNYPPWL WGYLSMEFIYPVFSHF\SQYRW *DLPKKSEEE\UPFLRSNPK\WN\ HSYLNLANGSRSPLNYPPWL WGYLSMEFIYPVFSHF\SQYRW *DLPKKSEEE\UPFLRSNPK\WN\ HSYLNLANGSPSLLYPSWF\UPFL HSYMLMAPGYQAIKYLENIEL\NKKS MYSRVPRVPRSPITYYYYGFAY LLI.GIDYYQAIKYLENIEL\NKKS MYSRVPRVPRSPITYYYYGFAY LLI.GIDYYQAIKYLENIEL\NKKS MYSRVPRVPRSPITYYYYFKIDESI QMHALLAIALT\MYPMK\UPFL HQLBEKYGDIXMLRMQK\UPFL RSYSC\PRFLA\UPFL RSYSC\PRFLA\UPFL HQLBEKYGDIXMLRMQK\UPFL VDNV\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
			1			QRPWMIFTTHFREPVFDVIIGQG

2635

SEQ ID NO:	of peptide sequence	hod	SEQ 1D NO: in USSN 09/540,217	location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X-Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
20492	50860	Α	20609	232	621	
20493	50861	A	20610]1	3590	MAPRKRGGRGISFIFCCFRNND
						HPEITYRLRNDSNFALQTMEPA
						LPMPPVEELDVMFSELVDELDL
						TDKHREAMFALPAEKKWQIYC
						SKKKDQEENKGATSWPEFYID
		ļ.			İ	QLNSMAAGILEGVFVHIVITHC
						LQNQQQLLHDKQGNRHFICCL
		l			İ	RSHQHPMLPACSNVHLSSFDRK
		l		i		TLCKDALCPLPASHVSRYLRKS
		l		ļ.	1	LLALEKEEEEERSKTIESLKTAL
		l				RTKPMRFVTRFIDLDGLSCILNF
		1			1	LKTMDYETSESRIH
20494	50862	Α	20611	203	3480	SHQEIEQNSAMAPRKRGG\RGI
						AFIFCCLRNNDHPEITYRLRNDS
						NFALQTMEPALPMPPVEELDV
		ĺ		1		MFSELVDEL\DLPDKHREAMFA
		l			ŀ	LPAEKKWQIYCSKKKDQEENK
l		l				GATSWPEFYIDQLNSMAARKSL
l		l				LALEKEEEEERSKTIESLKTALR
		1				TKPMRFVTRFIDLDGLSCILNFL
		1				KTMDYETSESRIHTSLIGCIKAL
		1			i .	MNNSQGRAHVLAHSESINVIAQ
ļ		1	1		l	SLSTENIKTKVAVLEILGAVCLV
	ĺ				i	PGGHKKVLQA
20495	50863	A	20612	1	338	PGGALRVPDAPAGAEGQELCR
						SDFPVGGAGVGDEEGVQCPAP
				i		AAHRDDTDLRGAH*EVQDAAG
ļ						RRKOPDREOPAGAEEGAPHLPE
		1			1	RVPPG*RHGTCTDRGQARACG
						GPLAPE
20496	50864	В	20613	610	6429	
20497	50865	В	20614	28	280	

e (X=Unknown,
ssible nueleotide
nucleotide insertion)
RLIKDFLFVFNL
FGIWILIDKTSFL
LQIW\SKVL\AIS
GLCWGALK\EL
MLLLLFATQITLE
LERSLR\DVVGK
ETAPEEN\WDYV
HYGRDWFKVFIL
TRS*YNFMAT*
QLTRLEHLARSR
ESHITRKG\CAQ
JFP*WAICLGVG
NIPVEETVDHGL
PAPPQSRAPPPVS
NICLIPRLAVEPS
VLRAPAAVTSPT
PSVGLPPPTRLF
LVNDHKKGGRS
RA
HHHDYYNHH/
HINYNHHHHDH
НҮНДНННҮҮН
нниннинни
HHHHHREYHH
ННИМУЛУНН
ҮНИИННИНИН
YHYHHYHHD
HNYYYLYNRYH
IYRHHHHHHQY
HT*ILFCS*KODR
PFFNCHHHCHH
KTKOSRPESLLP
HPLHRPGAPQHQ
REAAGSSPGSLSS
KRCFYSRF
into rolu

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide		Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	i	09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20503	50871	Α	20620	69	1054	AISCHVVHAGHQQTQITGNDPF
						PVVTYSKGPNLOSSRSDMDDST
						EREOSRLTSCLKKREEMKLKEC
		i				VSILPRKESPSVRSYKDGKLLA
						ATLLLALHACCLTEVSFYQVAA
		1	1			LQGDLASLRAELQGHHAEKLP
		1				AGAGAPKAGLGGSSSCSPRDLK
		1				IF*TTSSREKAIP/GSEQQK*GVP
						FQGPEETVTQDCLQLIADSETPT
						IQKGSYTFVPWLLSFKRGSALE
						EKENKILVKETGYFFIYGQVLY
						TDKTY\AMGHLIQRKKVHVFG
						DELS\LVTLFR\CIQNMPETLPNN
						SCYSAGIAKLEEGDELQLAIPRE
						NAQISLDGDVTFFGALKLL
20504	50872	Α	2062 I	3	855	LQNSHGHTMIRTLLLSTLVAGA
		l				LSCGDPTYPPYVTRVVGGEEAR
		l				PNSWPWQVSLQYSSNGKWYHT
		1				CGGSLIANSWVLTA\AHCISSS\R
		l				TYRVGLGRHNLYVA\ESGSLA/
	1	1				MSSVSKIVVHKD\WNFNQISKG\
						NDI\ALLKLANPVSLTDKIQ\LA\
						CFPPAGTILPN\NY\PC*VTGLGE
		1				SCRTNG\AVPDVL\QQGR\LLAV
		1				DYATCS\SSA\WWGSSVKTSMIC
		1				A\GGDGVISSCNGDSGGPLNCQ
		1				A\SDALWQVHGIVSFGSRLGCN
		1				YYHKPSVFTRVSNYIDWINSVI
		<u> </u>				AYN
20505	50873	A	20622	19	414	SVCWEDRYLKARMEESPLSRA
		i				PSRGGVNFLNVARTYIPNTKVE
						CHYTLPPGTMPSASDWIGIFKP/ GYLPKPGAQLYQFRYVNRQGQ
		1				VCGQSPPFQFREPRPMDELVTL
			ļ			EEADGGSDILLVVPKATVLONO
20506	50874	A	20623	tı	393	AKSWQEEQSAQAQRLKDKVA
20300	30074	ľ^	20023	1	393	QMKDTLGQAQQRVVSEAPWQ
		1				OETGNSKGKL*RSLRV*REGER
						HG*RLNNTTPSPNAVEWRER/IT
		1				SLADE*FTRNCDLHLLLSPEAEL
						EPLKEQLRGAQELAASSQQKAT
						LY
20507	50875	Α	20624	56	416	NRPLLALVASDTOPLHTHTHTH
1		Γ.		-		TPLSDAPKPIPGA/HLP/CSYLEF
		1				PLTSVPHPSLFHNLRYSVWRGF
						LYF*GFLYSVSSPRISSHGKK*CI
		1			1	CAFCEEWGEQVVPGIPISKAPLP
		1				LOVPPOO
20508	50876	A	20625	115	392	````
20509	50877	В	20626	1	3388	

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20510	50878	Α	20627	3	1889	SSPREKTSDSSHRPSRHGFLFLR
		l				LVGLSPFSYLCVPPSRPVPGSPR
		ł				SLSAMRLLPLAPGRLRRGSPRH
		1				LPSCSPALLLLVLGGCLGVFGV
				l		AAGTRRPNVVLLLTDDQDEVL
		1				GGMTPLKKTKALIGEMGMTFS
		1			ŀ	SAYVPSALCCPSRASILTGKYPH
		l				NHHVVNNTLEGNCSSKSW\QKI
		l				QEPNTFPAILRSMCGYQTFFCR
		l			į .	GNI*MKYGAP\DAGG\LG\HVPL
		1				GLGVTWYALEKNS\KYYNYTL
		1			l	FYSMGKARKHGENY\SVDYLT
		1			l	DVLANVSLDF\LDYK\$NF*PFF
		l				MMIATP\APH\$PWTAAPQYQKA
					1	FQNVFAPRNKNFNIHGTNKHW
		l				LIRQAKTPMTNSSIQFLDNAFR
		1			Į.	KRWQTLLSVDDLVEKLVKRLE
						FTGELNNTYIFYTSDNGYHTGQ
	ŀ	l				FSLPIDKRQLYEFDIKVPLLVRG
1	ŀ	ı				PGIKPNQTSKMLVANIDLGPTIL
1					i	DIAGYDLNKTQMDGMSLLPILR
	İ	1				GASNLTWRSDVLVEYQGEGRN
		1				VTDPTCPSLSPGVSQCFPDCVCE
						DAYNNTYACVRTMSALWNLQ
					I	YCEFDDQEVFVEVYNLTADPD
					1	QITNIAKTFDP\ELLGKMNYRL
	1	1			i	MMLQSCSGPTCRTPGVFDPGY
		1		1	1	RFDPRLMF\SNRGSVRTRRFSQT
1		l	İ		1	SSCSDPHTASADGSLHALFLMK
20511	50879	Α	20628	132	253	
20512	50880	Α	20629	1	1269	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, *=possible nucleotide insertion)
20513	50881	A	20630	1	1920	MDEAEFSSFVVRTNTCGELRSS HLGQEVTLCGWIQYRRQNTFL VLRDFDGLVOVIIPODEVIENFL
						LLSKSFFDAIAGSAASVKKILCE
				l		APVESVVQVSGTVISRPAGQEN
						PKMPTGEIEIKVKTAELLNACK
						KLPFEIKNFVKKTEALRLQYRY
					i	LDLRSFQMQYNLRLRSQMVMK
						MREYLCNLHGFVDIETPTLFKR
				1		TPGGAKEFLVPSREPGKFYSLP
						OSPQOFKQLLMVGGLDRYFQV
						ARCYRDEGSRPDROPEFTOIDIE
						MSFVDQTGIQSLIEGLLQYSWP
						NDKDPVVVPFPTMTFAEV\RPP
						YGTDKPDTRFGMKIIDISDVFR
						NTEIGFLQDALSKPHGTVKAICI
			i			PEGAKYLKRKDIGSIRNFAADH
		İ			ŀ	FNQEILPVFLNANRNWNSPVAN
		1				FIMESQRLELIRLMETQEEDVV
					ŀ	LLTAGEHNKACSLLGK\LRTGN
1						VAGPSRKQEGVVLRDPTLFSFL
			ŀ			WVVDFPLFPGQRRKIQESWDR
						GQHPF\TAPHPR*IT\LLYTEPKK
		1				ARSQHYDLVLNGNEIGGGSIRI
						HNAELQRYILATLLKEDVKMLS
				1		HLLQALDYGA\PPHGGIALGLD
				l		RLICLVTGSPSIRDVIAFPKSFRG
				1		HDLMSNTPDSVPS*GTEALSYP
		<u>_</u>				SLQANRLQSRKSSLNHAYHAES
20514	50882	Α	20631	1	425	KEPVGCVNNISFLASLAGSTSR
l					İ	NRLQSTRGAGRLQNSGTGLSTN
						LQHFQEENFRKSSPQLEHT/WSF
			Ì			FGECTTHHLPPVKAPLQTKKKT
l		1				TNHCFLCGKKTGLASSYECRQ
		1				VGELEKLRCFLCDNPAWGLCKI
20515	50883	 -	20632	1	1647	KYLNCLFITSL
20516	50884	A A	20632	1	3096	
20517	50885	A	20634	1	419	
20517	50886	A	20635	558	1070	SFRFGHSHGLWKRKKVA*GSN
20318	50880	^	20033	"	1070	AIQHNMLQGKQNFHGAALWY
		1				KGNSTOSKRPORAP*ESSTTKR
		1	l	ĺ		GLQLSRQTLQLDPGGTVPCSEE
		1	l	i	1	YCICQ*EGPASRNRYNGVPSHF
		l				PSPTCIRESSHSGKILKSRLRCW
		1		l		
	1	1	l			GWPTDPWSVLPMDPRTSPLCA
	L		L	L	L	AGSQAVVAHSGRQQKYPAL

SEQ ID			SEQ ID NO: in USSN		Nucleotide location of last	
NO:	of peptide sequence	hod	09/540,217	location of first codon for peptide	codon for last amino acid of peptide sequence	*=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
				sequence		, ,
20519	50887	A	20636	3887	4573	KKTTLLTLSKTRNILNPFKVVK
						KKAYGSRKHLRQ/HLAINPAAL
						LPTAASQISEVKPVLPELAFPSS
						EHRRSHGLESVPVLPGSGEAGV
		1				SFDLPAQADTLHSANKSRVKM
						RGKRRPQTRAARRLAAQESSE.
		1				EDM\RSPEDPLHSGLMAPFPQM
		1			İ	AIGHSSEQPVEKTALRRPWQLF
						LHLGKVVLCLEWTQAPLQSLW
		l				VIPEGRLTFLILGTFFPRALDLSI
		l				WREQNPRQR
20520	50888	Α	20637	1	2988	MATAPSPPMLTLAPAWLCPAT
						TTPRDHSEASLEALPGDPPAHP
		1				AAAATAAAVIPALEPPHTPVYA
					I	IFVNHSLLDLYIDRPLPYLIGSK
		1			l	LFMEQEDVGLGELSSEEGNAD
		1				QSSGLEGACKVNLELLLTNAD
						KGLKAPEQHLKHVAGVLNGES
		l				VETSVLNYRELSPHKNRLLSPL
						RCSAPMSLHNSLVKPERQSKCI
		l				EFGKLQPSSSQSLDVQNITDSSF
		l				SRTTCFQGVKVDSLGKRSDVIS
		1				KVEARDITEMTNKA
20521	50889	Α	20638	1	1176	
20522	50890	A	20639	124	367	
20523	50891	I ^A	20640	124	441	RYPRVPENRCFSELLFFQAPLG
						VGMARGNQR\ELARQKNLKET
						QEI\SRGKGKEDSLTALSRKQRI
		1				S*IIAKKQKAA\NEKKS\MQTRI
20524	50892	-	20641	32	232	NVMTGYLENPGATAQLGVS
20524	50892	A	20642	1	256	-
20526	50894	C	20643	133	509	
20527	50895	A	20644	88	685	OKRGRLFKIILKVVLYLMKVIV
						HRKMFQRAQELRWRAEDYHK
		1				CKAFSDHPLCKKASLOLGONG
		1				GSGASSFFRIALLALPHS*NFKK
						ODGPPATSSNSTTFYN**LPEPC
	1	1				DTSRMSSYSLSTLSSSTLRG**S
	1	1				ODSSLSYSGGRGRKITETQEAE
		1				VE*AENRSLHSSLGNKKKSVSC
						TKEKNOKTKONPHSKNKLTKN
20528	50896	Α	20645	42	946	
20529	50897	С	20646	I	453	
20530	50898	С	20647	771	1223	
20531	50899	С	20648	324	659	
20532	50900	C	20649	427	654	
20533	50901	В	20650	343	1774	
20534	50902	В	20651	23	525	
20535	50903	В	20652	2354	5689	
20536	50904	В	20653	448	3506	

SEQ ID	ISEO ID NO.	Mat	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /~possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20537	50905	<u> </u>	20654	12	182	
		B C	20654	210		
20538	50906				422	
20539	50907	С	20656	145	357	
20540	50908	В	20657	1	327	
20541	50909	В	20658	1	2595	
20542	50910	В	20659	122	472	
20543	50911	В	20660	163	418	
20544	50912	С	20661	86	517	
20545	50913	В	20662	334	2946	
20546	50914	В	20663	11	700	
20547	50915	В	20664	184	2372	
20548	50916	С	20665	267	467	
20549	50917	В	20666	131	268	
20550	50918	В	20667	18	255	
20551	50919	В	20668	100	356	
20552	50920	В	20669	120	839	
20553	50921	В	20670	355	504	
20554	50922	В	20671	1	1524	
20555	50923	В	20672	175	366	
20556	50924	В	20673	436	792	
20557	50925	В	20674	94	1347	
20558	50926	В	20675	865	1189	
20559	50927	В	20676	241	423	
20560	50928	В	20677	124	352	
20561	50929	В	20678	1	847	
20562	50930	В	20679	262	4624	
20563	50931	С	20680	76	297	
20564	50932	В	20681	1	702	
20565	50933	В	20682	1	1347	
20566	50934	В	20683	78	2874	
20567	50935	В	20684	133	7317	
20568	50936	В	20685	294	1449	
20569	50937	С	20686	139	367	
20570	50938	С	20688	154	445	
20571	50939	В	20689	1	1086	
20572	50940	В	20690	111	440	7,5,000
20573	50941	В	20691	303	462	
20574	50942	В	20692	1	2905	
20575	50943	c	20693	349	453	
20576	50944	c	20694	233	376	
20577	50945	В	20695	1	2016	
20578	50946	В	20696	1464	3022	
20579	50947	В	20697	1	1059	
20580	50948	В	20698	i -	933	
20581	50949	В	20699	1	930	
20582	50950	c	20700	129	215	
20583	50951	c	20701	283	408	
20584	50952	В	20702	1	1134	
20585	50953	В	20702	1	525	
20586	50954	В	20704	146	556	
20587	50955	В	20705	1	675	
2000/	100700	ш_	20703	<u>'</u>	075	

Ne: brighter squence s	SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
Sequence	NO:						
20588 50956 B 20706 I 1107		sequence	1	09/540,217		of peptide sequence	deletion, \=possible nucleotide insertion)
200595 50957					sequence		
200595 50957	20588	50056	B	20706	1	1107	
20590 50958 C 20708 52 156					1		
20591 50959 C 20709 1 420 20592 50960 B 20710 1 1347 20593 50961 C 20711 1 411 20594 50962 B 20712 169 248 20595 50963 B 20713 63 1321 20596 50964 B 20714 1 359 20597 50965 C 20715 1195 1674 20598 50966 B 20716 964 1290 20599 50967 B 20717 51 389 20599 50967 B 20718 108 232 20600 50968 B 20719 425 3545 20601 50968 B 20719 425 3545 20602 30970 C 20720 35 226 20603 50931 B 20721 1<							
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2009 2009			_				
					1		
20595 50963 B 20713 63 1321 20596 50964 B 20714 1 359 20597 50965 C 20715 1195 1674 20598 50966 B 20716 904 1290 20599 50967 B 20717 51 389 20600 50968 B 20718 108 232 20601 50969 B 20719 425 3545 20602 50970 C 20720 35 226 20603 50971 B 20721 1 387 20604 50972 B 20722 1 1926 20604 50973 B 20723 523 1242 20605 50973 B 20724 2 2346 20607 50975 B 20725 63 287 20608 50977 B 20726 59					169		
20596 19964 B 20714 1 359 20597 50965 C 20715 1195 1674 20598 50966 B 20716 964 1290 20599 50967 B 20717 51 389 20590 50968 B 20718 108 232 20601 50989 B 20719 425 3545 20602 50970 C 20720 35 226 20603 50971 B 20721 1 387 20604 50973 B 20722 1 1926 20605 50973 B 20723 523 1242 20606 50973 B 20723 523 1242 20607 9973 B 20725 63 287 20607 9975 B 20725 59 200 20610 50978 B 20728 1 </td <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td>			_				
20597 50965 C 20715 1195 1674 20598 50966 B 20716 964 1290 20599 50967 B 20717 51 389 20600 50968 B 20718 108 232 20601 50969 B 20719 425 3545 20602 50970 C 20720 35 226 20603 50971 B 20721 1 387 20604 50972 B 20722 1 1926 20605 50973 B 20723 23 1242 20606 50974 B 20724 42 2346 20606 50974 B 20725 63 287 20605 50977 B 20725 63 287 20609 50977 B 20727 1 1176 20610 50980 B 20729 1<			_				
20598 59066 B 20716 964 1290 20599 50967 B 20717 \$1 389 20600 59968 B 20718 108 232 20601 59969 B 20719 425 3545 20602 59970 C 20720 35 226 20603 59971 B 20721 1 387 20604 50972 B 20723 523 1242 20605 59973 B 20723 523 1242 20606 59973 B 20723 523 1242 20607 59973 B 20725 63 287 20609 50977 B 20725 63 287 20609 50977 B 20728 1 709 20611 5998 B 20730 1 100 20612 59980 B 20730 219<					1195		
20599 90967 B B 20717 \$1 389 20600 \$0969 B B 20719 425 3545 20601 \$0969 B 20719 425 3545 20602 \$0970 C 20720 35 226 20603 \$0971 B 20721 1 387 20604 \$0972 B 20721 1 1926 20605 \$0973 B 20723 1 1926 20605 \$0973 B 20723 523 1242 20606 \$0974 B 20724 42 2346 20607 \$0975 B 20725 63 287 20608 \$0976 B 20726 59 200 20609 \$0977 B 20727 1 1176 20610 \$0978 B 20728 1 769 20611 \$0978 B 20727 1 1176 20612 \$0980 B 20731 195 1739 20613 \$0981 B 20731 195 1739 20614 \$0982 B 20731 195 1739 20615 \$0983 B 20733 2752 4108 20616 \$0984 B 20734 1 1 104 20616 \$0988 B							
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20601 50999 B 20719 425 3545 20602 50970 C 20720 35 226 20603 50971 B 20721 1 387 20604 50972 B 20722 1 1926 20605 50973 B 20723 523 1242 20606 50974 B 20724 42 2346 20607 50975 B 20725 63 287 20608 50976 B 20725 63 287 20609 50977 B 20727 1 1176 20610 50978 B 20729 1 2009 20611 50987 B 20729 1 2009 20612 50980 B 20731 195 1739 20613 50981 B 20731 195 1739 20614 50988 B 20733 275							
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26606 50974 B 20724 42 2346 26607 50975 B 20725 63 287 26608 50976 B 20725 63 287 26608 50977 B 20727 I 176 26610 50978 B 20727 I 176 20611 50979 B 20728 I 709 20612 50980 B 20730 219 2009 20613 50981 B 20731 195 1739 20614 50982 B 20733 219 4045 20615 50983 B 20733 2752 4108 20616 50984 B 20734 I 1104 20617 5085 B 20735 24 230 20618 50986 B 20736 I 1922 20621 50988 B 20738 157 </td <td></td> <td></td> <td></td> <td></td> <td>523</td> <td>1242</td> <td></td>					523	1242	
20607 50975 B 20725 63 287 20608 50976 B 20727 1 1176 20609 50977 B 20727 1 1176 20610 50978 B 20728 1 769 20611 50979 B 20729 1 2009 20612 50980 B 20730 219 3045 20613 50981 B 20731 195 11739 20614 50982 C 20732 126 435 20615 50983 B 20734 1 1104 20616 50984 B 20734 1 1104 20617 50985 B 20734 1 1104 20618 50984 B 20735 24 230 20619 50987 B 20737 1 7997 20620 50988 B 20738 157 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
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20011 50979 B 20729 I 2009	20609						
20611 50979 B 20729 1 2009 20612 50980 B 20730 219 3045 20613 50981 B 20731 195 11739 20614 50982 C 20732 126 435 20615 50983 B 20733 2752 4108 20616 50984 B 20734 1 1104 20616 50985 B 20735 24 230 20617 90885 B 20736 1 1292 20618 50986 B 20736 1 1292 20619 50987 B 20737 1 7977 20621 50988 B 20738 157 2627 20621 50988 B 20738 157 2627 20621 50989 C 20740 35 87 20622 50999 B 20740 <td< td=""><td>20610</td><td>50978</td><td>В</td><td>20728</td><td>i</td><td>769</td><td></td></td<>	20610	50978	В	20728	i	769	
20613 69981 B 20731 195 17799 20614 50982 C 20732 126 435 20615 50983 B 20733 2752 4108 20616 50984 B 20734 1 1104 20617 50985 B 20735 24 230 20618 50986 B 20735 1 17977 20629 50988 B 20736 1 1292 20621 50988 B 20737 1 7977 20621 50988 B 20738 157 2627 20621 50990 B 20740 35 87 20623 50990 B 20740 35 87 20624 50992 B 20743 162 2276 20624 50992 B 20743 162 2276 20625 50993 B 20744 <td< td=""><td>20611</td><td></td><td></td><td>20729</td><td>1</td><td>2009</td><td></td></td<>	20611			20729	1	2009	
20613 50981 B 20731 195 1739 20614 50982 C 20732 126 435 20615 50983 B 20733 2752 4108 20616 50984 B 20734 1 1104 20617 50985 B 20735 24 230 20618 50985 B 20735 24 230 20618 50986 B 20736 1 1292 20619 50987 B 20737 1 7977 20620 50988 B 20738 157 2627 20621 50998 B 20739 165 53 3 20622 50990 B 20740 35 87 20623 50990 B 20740 35 87 20624 40992 B 20742 83 2670 20625 50993 B 20742 <td>20612</td> <td>50980</td> <td>В</td> <td>20730</td> <td>219</td> <td>3045</td> <td></td>	20612	50980	В	20730	219	3045	
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20619 50987 B 20737 I 7977	20617	50985	В	20735	24	230	
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20621 50989 C 20739 165 533 20622 50990 B 20740 35 87 20623 50991 C 20741 68 202 20624 50992 B 20742 83 2670 20625 50993 B 20743 162 276 20626 50994 B 20744 104 245 20627 50995 B 20744 104 245 20628 50996 B 20746 14 3115 20629 50997 C 20747 69 203 20630 50998 B 20748 1 2152 20631 50999 C 20749 114 387 20632 51000 C 20750 56 250 20633 51001 B 20751 53 3398 20634 51002 B 20752 642<	20619	50987	В	20737	1	7977	
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20628 50996 B 20746 14 3115 20629 50997 C 20747 69 203 20630 50998 B 20748 1 2152 20631 50999 C 20749 114 387 20632 51000 C 20750 56 250 20633 51001 B 20751 53 3398 20634 51003 B 20752 642 2386 20635 51003 B 20753 1 1242 20637 51008 B 20755 192 463	20626	50994	В	20744	104		
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20631 50999 C 20749 114 387 20632 51000 C 20750 56 250 20633 51001 B 20751 53 3398 20634 51002 B 20752 642 2386 20635 51003 B 20753 1 1242 20636 51004 B 20754 51 601 20637 51005 B 20755 192 463	20629	50997	C	20747	69	203	
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20634 51002 B 20752 642 2386 20635 51003 B 20753 1 1242 20636 51004 B 20754 51 601 20637 51005 B 20755 192 463	20632	51000	С	20750	56	250	
20635 \$1003 B 20753 I 1242 20636 \$1004 B 20754 51 601 20637 \$1005 B 20755 192 463	20633	51001	В	20751	53	3398	
20636 51004 B 20754 51 601 20637 51005 B 20755 192 463	20634	51002	В	20752	642	2386	
20637 51005 B 20755 192 463	20635	51003	В	20753		1242	
	20636	51004	В	20754	51	601	
20638 51006 B 20756 125 1254	20637	51005	В				
	20638	51006	В	20756	125	1254	

SEQ ID NO:	SEQ ID NO: of peptide sequence	hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20639	51007	С	20757	208	333	
20640	51008	В	20758	155	4443	
20641	51009	В	20759	1	2529	
20642	51010	В	20760	63	321	
20643	51011	В	20761	226	645	
20644	51012	В	20762	1	1395	
20645	51013	В	20763	258	475	
20646	51014	С	20764	126	263	
20647	51015	В	20765	1	1429	
20648	51016	В	20766	51	3256	
20649	51017	С	20767	83	403	
20650	51018	В	20768	1	621	
20651	51019	В	20769	1	463	
20652	51020	В	20770	1002	3594	
20653	51021	С	20771	107	403	
20654	51022	В	20772	51	401	
20655	51023	С	20773	46	398	
20656	51024	В	20774	1	513	
20657	51025	В	20775	1	531	
20658	51026	С	20776	1	423	
20659	51027	В	20777	52	670	
20660	51028	С	20778	43	375	
20661	51029	В	20779	1	1629	
20662	51030	В	20780	1	1713	
20663	51031	В	20781	1	5154	
20664	51032	В	20782	37	585	
20665	51033	В	20783	1	3789	
20666	51034	С	20784	149	367	
20667	51035	С	20785	89	234	
20668	51036	В	20786	113	278	
20669	51037	В	20787	1	1632	
20670	51038	В	20788	1	762	
20671	51039	В	20789	230	3411	
20672	51040	В	20790	95	1150	
20673	51041	В	20791	1	1230	
20674	51042	В	20792	74	3123	
20675	51043	В	20793	1	1719	
20676	51044	С	20794	206	402	
20677	51045	В	20795	302 .	424	
20678	51046	В	20796	60	80	
20679	51047	В	20797	1	1248	
20680	51048	В	20798	8	1910	
20681	51049	В	20799	124	807	
20682	51050	В	20800	43	618	
20683	51051	В	20801	7	328	
20684	51052	В	20802	244	385	
20685	51053	В	20803	850	970	
20686	51054	C	20804	97	360	
20687	51055	В	20805	551	3159	
20688	51056	В	20806	861	1110	
20689	51050	В	20807	1	876	

SEO ID	lero in No.	Ta	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
		l		scquence		
	L		<u> </u>			
20690	51058	В	20808	1	849	
20691	51059	В	20809	1	1443	
20692	51060	В	20810	508	2398	
20693	51061	В	20811	53	185	
20694	51062	В	20812	50	633	
20695	51063	В	20813	I	444	
20696	51064	В	20814	58	262	
20697	51065	В	20815	27	1005	
20698	51066	В	20816	1	4860	
20699	51067	В	20817	1	3489	
20700	51068	С	20818	52	363	
20701	51069	С	20819	347	499	
20702	51070	В	20820	1	4140	
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20704	51072	В	20822	848	3116	
20705	51073	В	20823	41	1211	
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20708	51076	С	20826	229	467	
20709	51077	В	20827	71	1827	
20710	51078	В	20828	1	1045	
20711	51079	В	20829	1279	1479	
20712	51080	В	20830	1	2460	
20713	51081	В	20831	62	3691	
20714	51082	В	20832	1	1062	
20715	51083	В	20833	1	873	
20716	51084	В	20834	1	1041	
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20718	51086	В	20836	199	343	
20719	51087	С	20837	86	229	
20720	51088	С	20838	1	225	
20721	51089	С	20839	34	165	
20722	51090	Ċ	20840	238	455	
20723	51091	С	20841	200	322	
20724	51092	В	20842	59	164	
20725	51093	c	20843	1353	1793	
20726	51094	В	20844	1	1329	
20727	51095	c	20845	43	324	
20728	51096	c	20846	223	435	
20729	51097	c	20847	212	307	
20730	51098	C	20848	386	529	
20731	51099	В	20849	300	995	
20732	51100	В	20850	876	3312	
20732	51101	В	20851	153	306	
20734	51102	В	20852	39	3131	
20735	51102	В	20852	29	136	
20736	51103	В	20854	112	333	
20737	51104	В	20855	31	474	
20737	51105	В	20856	26	1716	
20738	51106	В	20856	26	1234	
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20740	51108	В	20858	1	6390	_

SEO ID SEO ID NO Not which will be a	ISEO ID	lero in No.	Date:	ero in vo.	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
Sequence Postular							
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20742 S1110					sequence		·
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20744 51112 B 20861 I 931			_				
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20790 51158 B 20909 1 693							
20791 51159 B 20910 77 2173							
L	20791	51159	В	20910	77	2173	<u> </u>

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop eodon, /=possible nucleotide
	sequence	l	09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
ŀ		l		sequence		
		<u> </u>			1	
20792	51160	В	20911	140	313	
20793	51161	В	20912	1	392	
20794	51162	С	20913	1	222	
20795	51163	В	20914	1	951	
20796	51164	В	20915	45	1244	
20797	51165	В	20916	166	2544	
20798	51166	С	20917	279	449	
20799	51167	В	20918	1	1250	
20800	51168	В	20919	229	2094	
20801	51169	В	20920	94	434	
20802	51170	С	20921	253	336	
20803	51171	В	20922	1	1314	
20804	51172	В	20923	6	327	
20805	51173	В	20924	163	3060	
20806	51174	В	20925	20	385	
20807	51175	В	20926	22	58	
20808	51176	C	20927	141	287	
20809	51176	В	20927	37	1063	
			20928		401	
20810	51178	С		261		
20811	51179	В	20930	66	3148	
20812	51180	В	20931	223	4149	
20813	51181	С	20932	21	278	
20814	51182	В	20933	158	1283	
20815	51183	В	20934	8	896	
20816	51184	В	20935	240	387	
20817	51185	С	20936	312	512	
20818	51186	В	20937	451	611	
20819	51187	С	20938	160	428	
20820	51188	В	20939	110	294	
20821	51189	В	20940	121	1764	
20822	51190	В	20941	1	423	
20823	51191	C	20942	74	316	
20824	51192	С	20943	136	255	
20825	51193	c	20944	79	381	
20826	51194	В	20945	282	1180	
20827	51195	В	20946	63	371	
20828	51196	c	20947	193	672	
20829	51197	В	20948	85	898	
20830	51197	В	20949	35	1055	
20830	51198	В	20949	1	870	
			20950	103		
20832	51200	В			1189	
20833	51201	В	20952	501	594	
20834	51202	В	20953	39	1694	
20835	51203	В	20954	489	4797	
20836	51204	С	20955	31	153	
20837	51205	В	20956	259	699	
20838	51206	В	20957	4	231	
20839	51207	В	20958	50	520	
20840	51208	С	20959	322	456	
20841	51209	В	20960	163	1152	
20842	51210	В	20961	33	745	

SEQ ID NO:	SEQ ID NO: of peptide		SEQ ID NO: in USSN	location of first	codon for last amino acid	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
20843	51211	В	20962	210	3519	
20844	51212	С	20963	34	294	
20845	51213	С	20964	301	381	
20846	51214	В	20965	71	675	
20847	51215	В	20966	1	873	
20848	51216	В	20967	118	1618	
20849	51217	В	20968	424	2415	
20850	51218	С	20969	106	231	
20851	51219	В	20970	71	756	
20852	51220	В	20971	1	1049	
20853	51221	С	20972	94	327	
20854	51222	В	20973	339	2589	
20855	51223	В	20974	89	273	
20856	51224	В	20975	1	2514	
20857	51225	В	20976	472	5831	
20858	51226	С	20977	247	300	
20859	51227	В	20978	1	2487	
20860	51228	В	20979	55	243	
20861	51229	С	20980	207	377	
20862	51230	В	20981	642	4117	
20863	51231	В	20982	44	2127	
20864	51232	В	20983	48	1127	
20865	51233	В	20984	1	3411	
20866	51234	В	20985	74	469	
20867	51235	В	20986	39	1251	
20868	51236	В	20987	223	378	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20869	51237	A	20988	1	2.577	MPPNRHRMRGETTLWNPGCDH AGIATQVVVEKLWNEGGLSR HQLGREAFLQEVWKWEEKG DRIYHQLKIKLGSSLDWDRACF TMDPKLSNAAVTEAFVGLHEKG INKSTLAFNWPCTLNSAISDIE VDKKELTGRITLJSVPGYKEKV EFGVLVSFAYKIVQGSD*/DDE EVVVANKLGSKTMLGDVAVA VPPPKDTRIYQHLKGKNVHHPS EXSLSSLSSDEFVDMDPGGTGA VKDHPPRHDQNDY EVGQRHGL EAISMDSRGAPIKCASAFFGFA AGLRGIKKGWW*RNRGLFRG IEDNPMVVPLCNRSKDVVEPLL RPQWYVRGEMQAASAAVT RGDLRILPEAHQRTWHAWMD NIREWCISRQLWWGHRIPAYFV TVSDPAVPPGESEDLSVPYPGT LLETGHDILFFWVARMVMLGI KLTGRLPFREVYLPCPSCENAH GRKIMSKSLGNVIDPLDVHLY GISLQGLHNQLLNSNLDPSEVE KAKEGGKADPFAGYPEGGTDA LRFGLCAYMSQGS*K*TWWN RIMG*RQFCNKLWKCTKFALR GIGKGFVPSDTSNSAGHSLA DR*IRNLUTEAVRLSNQGFQAY LGGKGFVPSDTSNSAGHSLA DR*IRNLUTEAVRLSNQGFQAY DPPAYTTAGVFWLYFUCDVY
						LECLKPVLNGVDQV/AQAECAR QTLYTLPWTLGLRLLSPFMPFV TEELFQRLPRRMPQAPPSLCVT
20870	51238	A	20989	2	4083	SQRGEHVGAGCRGGOLRELIGS PGEPPTVSASTPPPGFLGGSQP RAPAGCEVDSPAGSDHLPPVFP LRSDLLITMSTLYVSPHPDAFPS LRALIAARYGEAGEGGGWGGA HPRICLQPPPTSRTSFPPPRLPAL PAGGGGGGGSRAAVLVQQWVS AADTELIPAACGATLPALGLRS SAQDPQAVLGALGRALSPLEE WLRLHTYLAGEAPTLADLAAV TALLLPPRYVLDPPAR

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X-Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
20871	51239	Α	20990	1	756	MDMGAIKEGESRRPGDRMTVA
		1				GTKLLHLQSTHLDFISLSGAPSG
						ALELSKAQPAHAQDTRVLMKM
		ı				VIIWDLSQVPLQPGHDGHSFRIH
						DYLYFQVLSPGDIRYIFTATPAK
		ĺ				DFGGIFHTRYEQIHLVPAEPPEA
		l				CGELSNGFFIQDQIALVERGGCS
		l				FLSKTRVVQEHGGRGGDHL*Q
1		l				RS*QMTASTW/QMIQDSTQRTA
						DIPALFLLGRDGYMIRRSLEQH
		l				GLPWAIISIPVNVHQHSPPLSCC
1						NRPFLFW
20872	51240	Α	20991	2	393	
20873	51241	Α	20992	1066	1824	
20874	51242	Α	20993	3	902	
20875	51243	Α	20994	1	2163	
20876	51244	Α	20995	1	1890	
20877	51245	Α	20996	1	2882	MKQQLPVSYLQVIFNHWASRIS
						GARGAGWGPVRLGRLCADRAL
						DGESRPGGGGQSGVPASEASQ
1						KAAHGRRLPVPARLLRCAHSA
						LEPGRGSASSPRNSTTSDNDQPP
1						DYSFSKRCDSHSLGFSLVWESR
						NLTLPPTSKLLHFSAFHFFIYKC
i		l				RAEGHKLYKDLKNFLSAVKVM
1						HESSKRVSETLQFIYY\SEWYGH
						EELKAIVWNNDLLWEDYEEKL
						ADQAVRTMEIYVAQFSEIKERI
1				1	l	AKRGRKLVDYDSARH

2650

NO.	SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X-Unknown,
	NO:						
1791 MPGARTSSSGASENHRARGOG GGPQGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEKVLQKLG KAVETKDERFEGSANNFYQQO AEGHKLYKDLKNFLSAVKVMH ESSKRYSETLQEIYSSEWDGHE ELKAIVWNNDLLWEDYSEKL). ADQAVRTMEIYVAQFSSIKENI ARKGRLVDYDSARHHLEAVQ NAKKKDEAKTAKAEEFPIKAQ TVFEDLINQELLEELPILYNSRIG CYVTIPQNISNLEVYDYNRATH CYVTIPQNISNLEVYDYNRATH VVKGLSSSSRRSLVSIPPVRTAT VSSPLTSPTSTSTLSLKSESESVS ATEDLAPDAAQGEDNSIKELL EEEEIEKEGSGASSEDEPLPA CNGPAQAQPSPTTERAKISQEE VLPSSTTSPSGGALSPSGQLSS ATEVVLRTRASEGSERPKKT ASIQRTSAPPRRPPPRATASPRR CSGNIPSSPTASGGASTISPRAS LGTGTASPRTSLEIVPSPEPEK PVRTPEAKENENHNONPEELC TSPTLMTSQVASEPGGAKKME DKEKDINLISADSSGQDQLQV SMVPENNLTARPGQEEVTSTE CTSPTLMTSQVASEPGEAKKME DKEKDINLISADSSGQDQLQV SMVPENNLTARPGQEEVTSTE CSGNIPSSPTASGGANTSPRAS LGGGVASTASPRASPRIPPIPPUD TTHLTFINHLSIVCVSLTLSLPHL GSPCLWSPALVSQEASHQDRR CSGNIPSSPTASGGAVTSPRAS LGGGVASTASPHADEN CSGNIPSSPTASGGAVTSPRAS LGGGVALULARDSVENGEGKAKME DKEKDINLISADSSGQDQLQV SMVPENNLTARPGQEEVTSTE CSGNIPSSPTASGGAVTSPRAS LGGGVALULARDSVENGEGKAKME DKEKDINLISADSSGQDQLQV SMVPENNLTARPGQEEVTSTE CSGNIPSSPTASGGAVTSPRAS LGGGVALULARDSVENGEGKAKME DKEKDINLISADSSGQDQLQV CSGNIPSSPTASGGAVTSPRAS LGGGVALULARDSVENGEGKAKME DKEKDINLISADSSGQDQLQV CSGNIPSSPTASGGAVTSPRAS LGGGVALULARDSVENGEGKAKME DKEKDINLISADSTGAV CSGNIPSSPTASGGAVTSPRAS LGGGVALULARDSVENGEGKAKME DKEKDINLISADSGGAVTSPRAS LGGGVALULARDSVENGEGKAKME DKEKDINLISADSGGARSHOKR CSGNIPSSPTASGGARSHALVCRRRQ CSGNIPSSPTASGGARSHALVCRRRQ CSGNIPSTALVGGARSHALVCRRRQ CSGNIPSTALVGGARSALLICRRRQ CSGNIPSTALVGGARSHALVCRRRQ CSGNIPSTALVGGARSHALVCRRRQ CSGNIPSTALVGGARSHALVCRRRQ CSGNIPSTALVGGARSHALVCRRRQ CSGNIPSTALVGGARSHALVCRRRQ CSGNIPSTALVGGARSHALVCRRRQ CSGNIPSTALVGGARSHALVCRRRQ CSGNIPSTALVGGARSHALVCRRRQ CSGNIPSTAT		sequence	1	09/540,217		of peptide sequence	deletion, \-possible nucleotide insertion)
GGPQGVGRMAEGKAGGAAĞL FAKQVQKKFSRAQEKVLQKLG KAVETKDERFEQSANNFYQQQ AEGHKLYKDLKNFLSAVKVMH ESSKRYSETLQEIYSSEWDCHE ELKAIVWNNDLLWEDYEEKL\ ADQAVRTMEIYYAQFSEIKENR AKRGKLVDYDSARHHLEAVQ NAKKKDEAKTAKAEEEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQINSIRLDVFYREMSK LNIHNLYEVMSKLEQHSNKVF VVKGLSSSSRSLVISPPVRATAT VSSPLTSPTSPSTLSLKSESESVS ATEOLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEEDEPLPA CNGPAQAQPSPTTERAKSQEE VLPSSTTSPSGGASSSEEDEPLPA CNGPAQAQPSPTTERAKSQEE VLPSSTTSPSGGASSSEEDEPLPA CSGMIPSSPTASGGSATISPRAS LGTGTASPRTSLEIV*PXPEVPEK PVKTPFEAKENEINHNONPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSEGQOQLQV SMVPENNNLTAPEPGEEVSTSE DKEKDNKLISADSEGQOQLQV SMVPENNNLTAPEPGEEVSTSE DKEKDNKLISADSEGQOQLQV SMVPENNNLTAPEPGEEVSTSE LQGGVSVESCHISPSPHIPPVDP TTHLTFINHLSIVCVSLTLSLPHL GSPCLWSPALVSQEASHQDRR VSWKPENSLTAPEPGEVSTSE ALGGGLVLLRDSVEWEGRISLL KALVKKSALGGOVHLIGCE VSEKEPREGFDS**STIRLVYHD FIFRIPLLNWSKTEEGLVPGGFL GALRSWCKRITDPYPYTIALDS LSWLLLEKHCTVLCQIALHAV EPSRTLVLGDSSSVGKVSVLGL LHERLPRPAPVVALSSLAQITKV TLGGYHGARPSAHLLVCRRRQ\ RPNNYGTQWTSILPPGSLOG RPNNYGTQWTSILPPGSLOG RPNNYGTQWTSILPPGSLOG RPNTYGTQWTSILPPGSLOF PFRILLLSKKKEREARDSLLIPFQ FSSEKQQALLLRPRRGQATSHIFF PFRILLLSKKKEREARDSLLIPFQ FSSEKQQALLLRPRRGQATSHIFF				1	sequence		
GGPQGVGRMAEGKAGGAAĞL FAKQVQKKFSRAQEKYLQKLG KAVETKDERFEQSANNFYQQQ AEGHKLYKDLKNFLSAVKVMH ESSKRYSETLQFYSSEWDCHE ELKAIVWNNDLLWEDYSEKLA ADQAYRTMEIYVAQFSEIKERI AKRGRKLVDYDSARHHLEAVQ NAKKKDEAKTAKAEEEFNKAQ TVFEDLNQELLEELPLIYNSRIG CYVTIFONISNLRDVFYREMSK LNHNLYEVMSKLEKQHSNKVY VVKGLSSSSRRSLVISPVYRTAT VSSPLTSFTSPSTLSLKSESESVS ATEDLAPDAAQGEDNSEIKELL EEGEIEKEGSEASSEEDEPLPA CNGFAQAQPSTTFARKSQEE VLPSSTTPSPGGALSPSGQLSS ATEVVLRTRTASEGSERPKKT ASIQRTSAPRRPPPRATASPRF CSGMIPSSPTASGGGSAITSPRAS LGTGTASPRTSLEINFYPEPEPEK PVRTPEAKENENIHNONPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNNLTAFEPGESVTSE 20879 51247 A 20998 3 273 RRPRQRFTDGT/OWSILPDFSLU LQEGPSVESQTHISDPHIPPVDP TTHLTTPHLSIVCVSLTLSLPHL GSPCLWSPALVSQEASHODRR ALGGU-VLLNDSVERWEGVISLL KALVKKSALCGEQVHLIGCE VSEKEFREGFDS*TSTRLVYHD FRPDPLINWSKTEEGL/VPGGPL GALRSWCKRTDPYPVTTALDS LSWLLLRLHCTVTLCQALHAV EPSRTLVLGDSSSVGKVSVLGL LHEELRPRAPVVALSSLAQTKV TLGGYHGARPSAHILVCRRPRQ RPNNYOTQWTSHLPDFSLU PSPTRLVLGDSSSVGKVSVLGL LHERLPRAPVVALSSLAQTKV TLGGYHGARPSAHILVCRRPRQ RPNNYOTQWTSHLPDFSLOSPRG ALCXVALIPPHTITOGIPHNSF **PFNLHLISKKEREARDSLLPFQ FSSEKQQALLLRPRRGQATSHIFF FFFNLHLLSKKKEREARDSLLPFQ FSSEKQQAALLRPRRGQATSHIFF	20878	51246	Α	20997	i i	1791	MPGARTSSSGASENHRARGOG
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VVKGLSSSGRSLVISPPVRTAT VSSPLTSPTSPSTLSLKSESESVS ATEOLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEEDEPLPA CNGPAQAQPSTTERAKSQEE VLPSSTTPSPGGALSPSGOLSS ATEVVLRTRTASEGSERPKKT ASIQRTSAPPRRPPPPRATASPRE CSGMIPSSPTASGGGSATSPRAS LGTGTASPRTSLEIPVPFEPPER PVRTPEAKENENIHNONPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNILTASPGEGAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNILTASPGESTSEE LQEGPSVESQTHSDPHIPPVDP TTHLTFNHLSIVCVSLTLSLPHL GSPCLWSPALVSQEASHODER ALGGU-VLLNDSVERWEGWSLL KLALVKKSALCGEQFDH.GCE. VSEKEFREGFDS-STIRL-VYHD FFRPPLINWSKTEEGL-VPGGPL GALRSMCKRTDPYPVTTALDS LSWLLLRLHCT\TLCQ\ALHAV EPSRTL-VLGDSSSVGKVSVLGL LHERLPRAPPVALSSLAGTKV TLGGYHGARPSAHLUCRRPRQ\ RPNNYOTQWFSHLEDFSLGDF RPNT-VLGDSSSVGKVSVLGL LHERLPRAPPVALSSLAGTKV TLGGYHGARPSAHLUCRRPRQ\ RPNNYOTQWFSHLEDFSLGSPG ALCRVPALIPIPHITPGGIPHNSF **PFNLHLISKKEREARDSLLIPFQ FSSEKQQALLLRPFQGIPHNSF **PFNLHLISKKEREARDSLLIPFQ FSSEKQQALLLRPFQGIPHNSF **PFNLHLISKKEREARDSLLIPFQ FSSEKQQALLLRPRQGYSTHIP	1		l			l	
VSSPLTSPTSPSTLSLKSESSSYS ATEDLAPDAAQGEDNSEIKELL							
ATEOLAPDAAQGEDNSSIKELL EEEBIEKEGSEASSSEDDEPLPA CNGPRAQAQPSPTTERAKISQEE VLPSSTTPSPGGALSPSGQLSSS ATEVVLRTKTASEGSERPKKT ASIQRTSAPPRRPPPRATASPRR CSGNIPSSPTASGGSGATSPRAS LGTGTASPRTSLEN*PRPEPPRE PVRTPEAKENENHINONPEELC TSPTLMTSQVASEPGEAKKME DKEKDINKLISADSSEGQDQLQV SMVPENNINLTAPPGEEVPTSE VEREDINLTSQVASSEGGRATSPRAS UCGESVESQTHISDPHIPPVDP TTHLTFNHLSIVCVSLTLSLPHI GSPCLWSPALVSQEAASHODRR 20880 51248 A 20999 309 1310 RRPQRPTDQTQWFSILPDFSLD KALVKKSALCGEQVHILOCS: VSEKEPREGFDS*STIRLVYHD FRRPPLAWSKTEEGL/VPGGPL GALRSMCKRTDPYPVTIALDS LSWLLLRLHCTTLCQALHAV EPSRTLVLGSSSVGKVSVLGL LHERLPRAPVVALSSLAQTKV TLGGYHGARPSAHILVCRRPRQ RPNNYOTQWFSHLPDFSLGSPRG ALCRYPALHIPPHITPGGIPHNSF *PFNLHLISKKKEREARDSLLIPFQ RSSEKQQALLLIPPHITPGGJEPINSF *PFNLHLLISKKKEREARDSLLIPFQ FSSEKQQALLLIPPHITPGGJEPINSF *PFNLHLLISKKKEREARDSLLIPFQ FSSEKQQALLLIPPRGQATSHIPF	1						
	1		l				
CNGPAQAQPSPTTERAKISQEE	1						
VLPSSTTPSPGGALSPSGQU_SSS ATEVVLRTRTASEGSERPKKT ASIQRTSAFRREPPPRATASPRF							
ATEVVLRTRTASEGSERPKKT ASIQRTSAPPRRPPPPRATASPRE CSGMIPSSPTASGGSATISPRAS LGTGTASPRTSLEN*PNPENPER PURTPEAKENENIHNONPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSEGOQOLOV SMVPENNNLTAPEPGEEVSTSE DKEKDNKLISADSEGOPOLOV SMVPENNNLTAPEPGEEVSTSE LQEGPSVESGTHSPHIPPVDP TTHLTFNHLSIVCVSLTLSLPHL GSPCLWSPALVSQEASASHODRR 20880 51248 A 20999 309 1310 RHQRAPEQGPDASASHODRR HQRAPEQGPDASASHODRR LGGGLVLLRDSVEWEGRSLL KALVKSALGGOVHLIGGE VSEKEPREGFDS**STIRLVYHD FIFTRPPLLWSKTEEGLVPGGFL GALRSMCKRTDPPVPTIALDS LSWLLERLHCTTLCQALHAV EPSRTLVLGDSSSVGKVSVLGL LHERLPRAPVVALSSLAQTIKV TLGGYHGARPSAHLVCRRPRQ RPNIVGTQWTSJLUPPGILGPROF PFNLHLSKKEREARDSLLPFQ FSSEKQQALLLPPHTITGGGPHOSF *PFNLHLLSKKEREARDSLLIPFQ FSSEKQQALLLPPHTITGGGPHOSF *PFNLHLLSKKEREARDSLLIPFQ FSSEKQQALLLPPHTITGGGPHOSF			ŀ				
ASIQRTSA.PPRRPPPRATA.SPRE CSONIPSSPTASGGSAITSPRAS LGTGTASPRTSLEIV-PRPEUPEK PVRTPEAKENENIHNONPEELC TSPTILMTSQVASSPGEAKKME DKEKDINKLISADSSEGQDQLQV SMVPPNNNLTASPPGEVSTSE. LQEGPSVESQTHSDPHIEPVDP TTHLTFNHLSIVCVSLTLSLPHI GSPCLWSPALVSQEA.SHQDRR 20880 51248 A 20999 309 1310 RRPRQRPTQGVSLTSLEDHI RRADEQFSAVEMIDSLL KALVKKSALCGEQFVHLIOCE. VSEKEPREGFDS**STIRLVYHD PFRPPLLWSKTEEGL/VPGGPL GALRSMCKRTDPTVPVTIALDS LSWLLLRLHCTVTLCQALHAV EPSRTLVLGDSSSVGKVSVLGL LHERLPRAPVVALSSLAQTKV TLGGYHGARPSAHILVCRRPRQ RPNNYOTQWFSHLADFSLLFPQ RPNNYOTQWFSHLPDFSLGSPRG ALCRYPALIPPHITPGGIPHNSF **PFNLHLISKKKEREARDSILLPFQ FSSEKQQALLLPRPRQQSTSHLIP FSSEKQQALLLPRPRQOSTSHLF	1						
LGTGTASPRTSLEP*PRPEPEPER PVRTPEAKENENIHNONPEELC							ASIORTSAPPRRPPPPRATASPRP
PVRTPEAKENENIHNONPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQOQLQV SMVPENNNLTAPEPGEEVSTSE 20879 51247 A 20998 3 273 RRPRQRTDOTYDVSILPDFSLD LQEGPSVESQTHSDPHIPPVDP TTHLTFINHLSIVCVSLTLSLPHL GSPCLWSPALVSQEASHQDRE 20880 51248 A 20999 309 1310 RHQRAPEQGPDASWKMLDSLL ALGGILVLLRIDSVEWEGVISLL KUALVKKSALGGEQVHILGCE VSEKEFREGFDS**STIRLVYHD HPR DPLNWSKTEEGLVPGGPL GALRSWCKRTDPVPVTIALDS LSWLLLRHCTVTLQQALHAV EPSRTLVLGDSSVGKVSVLGL LHERLPRPAPVVALSSLAQTKV TLGGYHGARPSAHLLCRRRRQ\ RPNNYDTQWFSILPDFSLGSPRG ALCRVPALIPPHTIFGGIPHNSF *PFNHLLISKKEREARDSLLIPFQ FSSEKQQALLLRPRRGQATSHIFF FSSEKQQALLRPRRGQATSHIFF			1			1	CSGNIPSSPTASGGGSA\TSPRAS
TSPTLMTSQVASEPGEAKKME							LGTGTASPRTSLEI*PNPE\PPEK
DKEKDNKLISADSSEGOPOLOV						i	PVRTPEAKENENIHNQNPEELC
20879 51247 A 20998 3 273 RRPRQRPTDQTQWFSILPDFSLD LQEGPSVESQTHSDPHIPPVDP TTHLTFNHLSIVCVSLTLSLPHL GSPCLWSPALVSQEASHODRS 20880 51248 A 20999 309 1310 RHQRAPEQGPDASWKMLDSLL ALGGILVLLIRDSVEWEQUSLL KUALVKKSALGGEQVHLICGE. VSEKEFREGFDS**STIRLVYHD FFRDPLNWSKTEEGLVPGGPL GALRSWGKRTDPVPVTIALDS LSWLLLRHCTTTLQQALHAV EPSRTT.VLGDSSVGKVSVGLG LHERLPRPAPVVALSSLAQTKV TLGGYHGARPSAHLLCRRRRQ; RPNYDTQWFSILPDFSLGSPRG ALCRVPALIPPHITFGGIPHNSF *PFNLHL\SKKEREARDSLILPFQ FSSEKQQALLLRPRRQQATSHIF							TSPTLMTSQVASEPGEAKKME
20879			1	•			DKEKDNKLISADSSEGQDQLQV
LQEGPSVESQTHSDPHIPPVDP TTHLTFINLSIVCVSLTLSLPHL GSPCLWSPALVSQEASHODRE 20880 51248 A 20999 309 1310 RHQRAPEQGPDASWEMLDSLL ALGGILVLLIRDSVEWEGIRSLL KKALVKKSALGGEQVHLLOCE. VSEKEFREGFDS**STIRLVYHD FIFRDPLLWWSKTEEGLZ-PGGPL GALRSIMCKRITDPVPVTIALDS LSIWLLIKHCTITLQQALHAV EPSRTTLVIGDSSVGKVSVLGL LHERJPRAPVVALSSLAQTKV TILGGYHGARPSAHLLCRRPRQ\ RPNIVTGTWSTSLAPSLAQTKV FRPNIVTGTWSTSLAPSLAQTKV FSEKQQALLIPPHTTFGGIPHNSF *PFNHLLISKKEREARDSLLIPFQ FSSEKQQALLIRPRQGATSHIF FSSEKQQALLIRPRQGATSHIF			l				SMVPENNNLTAPEPQEEVSTSE
TTHLTFINILSIVCVSLTLSLPHL GSPCLWSPALVSQEAASHQDRR 20880 51248 A 20999 309 1310 RHQRAPEQGPDASWKMLDSLL ALGGUVLLURDSVEIWEGURSLL KALVKKSALGGOGVYHLGCES VSEKEFREGFDS**STIRLVYHD FIFTRIPHLINWSKTEEGLVPGGPL GALRSIMCKRTDPYPVTIALDS LSIWLLIKHCTVTLCQIALHAV EPSRTLVLGDSSVGKVSVLGL LHERLPRPAPVVALSSLAQTKV TLGGYHGARPSAHLLCRRRRQ RPNIVGTQWFSLIPPHTIFGGEPINSF *PFNLHLISKKEREARDSILIPFQ FSSEKQQALLLRPRRGQATSHIF FSSEKQQALLRPRRGQATSHIF	20879	51247	Α	20998	3	273	RRPRQRPTDQTQWFSILPDFSLD
GSPCLWSPALVSQEAASHQDRR 20880 51248 A 20999 309 1310 RHQRAPEQGPDASWKMLDSLL ALGGUVLLINDSVEWGGWSLU KVALVKKSALCGDQVHLIDGE VSEKEFREGFDS**STIRLVYHD FFRDPLNWSKTEEGL/PVGGPL GALRSMCKRITDPVPVTIALDS LSWLLIRLHCTVILCQ\ALHAV EPSRTLVLGDSSSVCKVSVLGL LHERLPRPAPVVALSSLAQTKV TLGGYHGARPSAHILVCRRPQ\ RPNNYQTQWFSILPPFSLGSPRG ALCRYPALIPPHTTFGGIPHNSF *PFNLHL\SKKEREARDSLILPFQ FSSEKQQALLLRPRQQATSHIF FSSEKQQALLRPRRQATSHIF							LQEGPSVESQT\HSDPHIPPVDP
20880 51248 A 20999 309 1310 RHQRAPEQGPDASWKMLDSLL ALGGILVILIRDSVEWEGIRSLL KKALVKKSALAGEQVHILGCE VSEKEFREGFDS**STIRLVYHD FFR PPPLAWSKTEFEGL-VPGGPL GALRSIMCKRITDPVPVTIALDS LSIWLLIRLHCTVTLQQIA.HAV EPSRTLVLGDSSVGKVSVLGL LHERLPPAPVVALSSLAQTKV TLGGYHGARPSAHLLCRRRRQ\ RPNIVTGTWFSILLPFOLGSPROF ALCRVPALIPPHITFGGIPHNSF *PFNHLL\SKKEREARDSLLPFQ FSSEKQQALLLPRRQQATSHIF			l				TTHLTFNHLSIVCVSLTLSLPHL
ALGGLVLLIRDSVE,WEGRSLL KALVKKSALCGEQVHILOCS: VSEKEPREGFDS****STIRLVYHD FIFRIPPLAWGSTEEGL/VPGGPL GALRSMCKRTDPPVPTIALDS LS;WLLIRLHCTTLCQALHAV EPSRTLVLGDSSSVGKVSVLGL LHERLPRPAPVVALSSLAQTKV TLGGYHGARPSAHIL/CRPRQ; RPNYOTQWFSILPDFSLGSPRG ALCRVPALIPPHITPGGPHNSF *PFNLHLISKKEREARDSILI.PFQ FSSEKQQALLLRPRRQQSTSHIF FSSEKQQALLRPRRQQSTSHIF							GSPCLWSPALVSQEAASHQDRR
K\ALVKKSALGGDQYHLIGGE\ VSEKEFREGFDS**STIRLVYHD F\FREDFLAWSKTEEGLY\PGGPL GALRS\MCKR\TDP\PVT\ALDS LS\WLL\RL\HCT\TLCQ\AL\HAV EPSRT\VLGDSSSVGK\YS\U_GL L\HERL\FRAP\PV\ALSS\AQ\TK\V TLGG\YHGAR\SAL\A\TK\V TLGG\YHGAR\SAL\A\TK\V R\PN\Y\T\U\T\G\YS\L\PF\T\SL\G\F\R\T\\ R\PN\Y\T\U\T\G\Y\G\X\L\PR\T\G\\T\\F\R\T\F\R\T\\F\R\T\F\R\T\\F\R\T	20880	51248	Α	20999	309	1310	RHQRAPEQGPDASWKMLDSLL
VSEKEREGOFOS**STIRLVYHD FFRDPLNWSKTEEGLVPGGPL GALRSWMCKRTDPVPVTIALDS LSWLLLRHCTVTLCQVALHAV EPSRTLVLGDSSVGKVSVGLGL LHERLPRPAPVVALSSLAQTKV TLGGYHGARPSAHLLCRRRRQ\ RPNV9TQWFSILPPFSLGSPRG ALCRVPALIPPHTIFGGIPHNSF *PFNLHL\SKKEREARDSLILPFQ FSSEKQQALLLRPRRQQATSHIFF							ALGG\LVLL\RDSVE\WEG\RSLL
FIFRDPILNWSKTEEGL/VPGGPL GALRS/MCKRITDP/PVTIALDS LS/WILLELHCTYL-CQ/ALHAV EPSRTLVLGDSSSVGKVSVLGL LHERLPRPAPVVALSSLAQTKV TLGGYHGARPSAHIL/CRRPG) RPN/YQTQWFS/ILPDFSLGSPRG ALCRYPALIPPHITFGGIPHNSF *PPNLHL/SKKEREARDS/LIPPG FSSEKQQA/LLRPRCQATSHIF							K\ALVKKSALCGE\QVHILGCE\
GALRSIMCKR\TDPVPVTIALDS LS\WLLIRLHGT\TLQ\ALIAV\ EPSRTLVLGDSSVGKVSVLGL LHERLPRPAPVVALSSLAQTKV TLGGYHGARPSAHILKGRRPQ\ RPN\TYOTQ\WFSILPPFSLGSPRG ALCRVPALIPPHTIFGGIPHNSF *PFNLHL\SKKEREARDSLILPFQ FSSEKQQALLRPRRQQATSHIF							VSEKEFREGFDS**STIRLVYHD
LSIWLLERLHCTTLCQALHAV EPSRTLVLGDSSVGKVSVLGL LHERLPRAPVVALSSLAQTKV TLGGYHGARPSAHLIJCRRPRQ, RPMYOTQWFSILPDFSLGSPRG ALCRVPALIPPHTTPGGPHNSF *PFNLHLISKKEREARDSILLPFQ FSSEKQQALLRPRRQQATSHIF	İ						F\FRDP\LNWSKTEEGL/VPGGPL
EPSRTLVLGDSSSVGKVSVLGL LHERLPRPAPVVALSSLAQTKV TLGGYHGARPSAHLUCRRPG) RPN\YQTQWFS\LPDFSLGSPRG ALCRVPALIPIPHITGGGPHNSF *PFNLHLSKKEREARDSLLIPFQ FSSEKQQALLLPRPQQATSHIF	1		l				GALRS\MCKR\TDPVPVTIALDS
LHERLPRAPVVALSSLAQTKV TILGGYHAAPSAHLLCRRRRQ\ RPNYYOTQWFSILLPFOSLOSPRO ALCRVPALIPPHTIFGGIPHNSF *PFNHLL\SKKEREARDSLILFFQ FSSEKQQALLRPRRQQATSHIF							LS\WLLLRLHCT\TLCQ\ALHAV
TLGGYHGARPSAHIL\CRRPRQ\ RPNIYOTQWFS\LPDFSLGSPRG ALCRYPALIPIHITPGGIPHNSF *PFNLHLSKSKEREARDSLLIPPG FSSEKQQA\LLRPRPGQATSHIF	1						EPSRTLVLGDSSSVGKVSVLGL
RPNYQTQWFS/ILPDFSLGSPRG ALCRVPALIPIPHITIFGGIPHNSF *PFNLHLASKEREARDS/LLPPC FSSEKQQA/LLPRPGQATSHIF			l				LHERLPRPAPVVALSSLAQTKV
ALCRVPALIPPHTIFOGIPHNSF *PFNLHL\SKKEREARDSILIPFQ FSSEKQQA\LLRPRPQQATSHIF							TLGGYHGARPSAHIL\CRRPRQ\
•PFNLHL\SKKEREARDSLILPFQ FSSEKQQA\LLRPRPGQATSHIF			l				RPN\YQTQWFSI\LPDFSLGSPRG
FSSEKQQA\LLRPRPGQATSHIF							ALCRVPALIPIPHITPGGIPHNSF
			l				*PFNLHL\SKKEREARDSLILPFQ
YEPDAYDDLDQEDPDDDLNILP							FSSEKQQA\LLRPRPGQATSHIF
							YEPDAYDDLDQEDPDDDLNILP

SEOID	SEQ ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X-Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
20881	51249	ÍΑ	21000	418	1304	GLVMEIGMHHHEHHHLOAPNK
						EDILKISEDERMELSKSFRVYCII
		1				LVKPKDVSLWAAVKETWTKH
						CDKAEFFSSENVKVFESINMDT
				l		NDMWLMMRKAYKYAFDKYR
						DQYNWFFLARPTTFAIIENLKY
		l		l		FLLKKDPSQPFYLGHTIKSGDLE
						YVGMEGGIVLSVESMKRLNSL
						LNIPEKCPEQGGMIWKISEDKQ
		1				LAVCLKYAGVFAENAEDADGK
						DVFNSQICWAFY*R/WQ*LITPN
		l				QVVEGCCSDMAVTFNGLTPNQ
	i			Ì		MHVMMYGVYRLRAFGPYFSM
						MHWFSYLQMVLTMTEKW
20882	51250	A	21001	1	1092	
20883	51251	Α	21002	130	397	EGVHSQVNLFPIKGNQTHVPAS
	1	i				HGTDSALPPTLQMDYRALVHE
		l				PD*AAYGELRAMVLDLRAFYA
		_				ELYHIISSNLEKIVNPKGEEKPF
20884	51252	A	21003	11	805	SSMAKPC\GVRLSGKGRKQVEV
		ı				FYRNLFQEAEEFLLR\FLPPESHI
		l				P*NRLLQEDFPFNVA*/LLNLSS
		1				GAPLDIPPSPDP\PP\KDDEMETD
		ı				K\QEKKEVPKCDFLP\GNEKCPC
		l				PCLPLVKPRSLDLSKEKC\ILVI\
		ı				TWGSRHLDPPRFEDGK*FWG*
1		1				AIPGEGAWRG*NA\VKDPKWE
1		1				AFPATPISQVLSSERGDACGPRP
		1				PQETHV\MDYRALVHERDEAA YGELRAMVLDLRAFYAELYHII
1		1				SSNL\EKIV\TPRGEEKPIYVLEP
20885	51253	ļ.	21004	352	670	AKRSRIHVGVVIVDSDGAELGR
20885	31233	Α	21004	332	0,0	DAAALSEKPPSLTIGLHMELVG
		1				MGGEPALTATPANCPEYPAKPS
1		1			1	SI/EOO*QSQVQ**Q*QVRHGSG
					1	PLHRTPROLFLCSROFAL
20886	51254	A	21005	3	222	SPEESPPACPRQVFPLYHLQRG
20000	31234	l^	21003	,	122	QGKRVQVG*GGSLWITTKTRLL
		l			1	PGGVGDNEVAPGSWHLALVFR
1		ł				LLSSGRP
			L	L	L	LLOOURY

	possible nucleotide ple nucleotide insertion) LAAAKKKIQDILN NGVVLPTLDKWK
	LAAAKKKIQDILN
20887 51255 A 21006 1 3639 MSEETLQSK VLVSDLNRS DAPEAWDLA LGAAPLTRA DSARRWETT D	
VLVSDLNRS DAPEAWDLU LGAAPLTRA DSARRWETS	
VLVSDLNRS DAPEAWDLU LGAAPLTRA DSARRWETS	
DAPEAWDIA LGAAPLTRA DSARKWETI	NGVVLPTLDKWK
LGAAPLTRA DSARRWETE	
DSARRWETE	CLALRSICGLAIQL
	ANFSVAEVTDVR
NEAAVFRHL	RKAPYLSCRIALRM
	VPGVYFPRCDQG
COLTAALGO	GAGVOSHVGPVT
VTTGPDSVT	AADAAGLCRVLR
	CRLTPHPYKFHVE
	RLSVDPGSSRREA
	VLDAAGADGPVS
	AGVVSQLRGGRQ
	MFEVPLVOGSILK
	INEACWDISSSGV
	HVSLLQFTLPSEGF
	AMGVNLTIMSKIL
	TLRIEDNVNTLVL
	VSDYEIKLMDLD
	EYHYVVKMLSGE
	IIGDAVVISGVKDG
	N/KNKLSQTSTVD
	EMNEPVQLTFALR
	PLSSMVTLNMSA
DIHLVVDYK	IADVGHLKYYLA
PKMEDEEGF)
20889 51257 B 21012 205 1309	
20890 51258 A 21013 189 410	
20891 51259 A 21014 1767 2158 RAQPHLYPE	AARTRGRK*LHFC
APSSAPRAP	VSERR/CAGRFLSW
CPVAAWDP/	ARWARRARRRR
AAARRRPP	RWRRRCLSARGR
RRSLNSSKTI	KNTKCLNSINQRL
KILSLOKDL	MCGTAGRCKTLTE
20892 51260 A 21015 1 1710	
20893 51261 A 21016 132 522	
20894 51262 A 21017 1 1386	
	KKTFLYNELYVY
	KVDIPSPPPRRCAH
	GGOLWVFGGEFAS
	KDLWVLHLATKT
	GPSGRSGHRMVA
	GFHESTRDYIYYN
	FTWSKLSPSGTVP
	VTPQGGIV\VYGG
	GQSRGRKPGSCLL
	LLLLCVLPLGYSL
	GNEPVPATFHGLN
SHMGLVATI	LDNVNP

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \:\text{-possible nucleotide insertion}
20896	51264	A	21019	2	2911	VRGPRARCRRSSKTEPRKGPS RISTRKKLELGAGSDSISVRRAP PHEHLFPSGEROPFSTLVSRGGL GPGKMGKKGKKEKKGRGAEK TAAKMEKKVSKRSRKEEPGVC RRIRPDI.GVECSAAAAHGFPNR GQFYGLPCARHSSLGFTPHEQE DLEALIAHFGTLDAKRTQTVEV PCPPSPSRKGGSGFVYTEDSVR KGTALRLNASLSVHPEKDELIL FGGEVFNQKTFLYNELYVYNI RKDTWTKKDVIPSP
20897	51265	A	21020	1	208	DGYRHEMLPASLIQAQRDYFG AH/TYELWAKPGQFIH/TNWTG HGGTVSSSSYNAFALFSVQFFK SVVRDS
20898	51266	A	21021	3	316	
20899	51267	A	21022	2	578	LIGLAVMGQNLILNMNDHGFV. TVVVDFLANEAKGTKVVGA QSLKEMVSKLKKPRRIILJVKA GQAVDDFIEKLRRCKDLKAKGI LFVGSGVSGGEEGARYGPSLMP GONKEAWPHIKTIFQGIAAKVG TGEPCCDWVGDEGAGHFVKM VINGIEYGDMQLICEAYHLMK DYLGMAQDEMALCPIFCSVF

2654

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20900	51268	Α	21023	3	1758	AYANLGTRFWREPLRVFPSLVL
						RASPLFGSALSAAMAQADIALI
				l		V\LFVMGHNLILNMKDHGFEVC
				l		AFNRTVSKVDDFLANEAKGTK
i						VVGAQSLKEMVSKLNKPPRDQ
				l		YLLC/VKAGQAVDDFIEKLVPL
		l	ŀ	!		LDTGDIII\DGGNSEY*GTPQDG
						CRDLKAKGILFEGS\GVSAGEE
						GD\RYGP\SLMPGGNK\EAWPHI
			l	1	4.1	KTIFQGIA\AKVGTGEPCC\DWV
						GDEGAGHFVKMVHNGIEYGD
						MQLICEAYHLMKDVLGMAQD
						EMAQAFEDWNKTELDSFLIEIT
		l				ANILKFQDTDGKHLLPKIQGTS
						AGARRGNRGSGT/WPFSGPGKY
						GVPV\TLI\GEAVF\ARCLSSL\KD
						ERI\QASKKLKGPQK\FQFDGD*
İ				l		EIISWEDIRKALYASKIISYAQGF
						MLLRHAA\TEFGWTLNYG\GIA
1						LMWRGGCIIRSVFLGKIKDAFD
						RNP\ELQNLLLD\DFFKVQLFEN
l						CQ\DSWR\RAVSTGVQGWAFP
						MPLFYRLPLSI*TGTSHEMLPAQ
						PSSRLQRGLLSGAHTL*NSWAK
						PGAVLFHTNWTG\HGGTVSSSS
						YQCLDHAAPVTLHDSTVPGHSI
						GLNGTAHLALCPIFCSVFFKSV
20901	51269	Α	21024	317	885	MRWRSKSAWRAEPKSRTNSGT
						ASNVSPSRPLEC*R/FLRLVSGE
						LILALIAFICIETIMACSPCEGLY
						FFEFVSCSAFVVTGVLLIMFSLN
		l				LHMRIPQINWNLTDLVNTGLSA
						FLFFIASIVLAALNHRAGAEIAA
						VIFGFLATAAYAVNTFLAVQK
			ŀ		1	WRVSVRQQSTNDYIRARTESRD
						VDSRPEIQRLDT
20902	51270	Α	21025	4761	5127	LGSGDLPWEINPLSSCSLLREKD
			1			PPTTSGPQT\TSPRNISPISNPHTR
1	l	1	l	I	l	TSKRLNRSGQAFLQNLLPQELA
	l	1	1		l	TSARNLTTRPRNACSPGFLLSR
						VPSVRDPTGNWTVQLTWQPLS
		L	L	L	l	EPLELWPKAL

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20903	51271	A	21026	174	2238	LRSGDLPWEINPLSSCSLLHEK
		1				PPTTSGPQT\TSPRNISPISNPRQ
		1		l		RHILSMDPKLRRRSWTWVGSL
				1		LVFNHCRDASLIIHPGFRGVRP
						RDVCLGPSPLATITDAELYVTL
	l	1	1			TVEGKSIPFLIDTEATHSTLPSFI
		1				GPVALASIHVQNVQIKRDKEGI
		1				YIMVKGSIQQEELTILNMYAPN
		1		1		TGAPRFIKQVLNDLQRDLDSH
						IIMGDFNTPLSTLDRSTROKVN
	1					KDIQDLNSALHQADLIDIYRTL
						HTKSTECTFFSAPHRTYSKIDH
						VGSKALLSKCKRTEIIINCLSDF
		1				SAIKLELRIKKLTONHSTTWKL
		1				NNLLLNDYWVHKEMKAEIKM
	1					FFEINENKNTTYONLWDTFKA
		l l				CRGKFIALNAYKRKOERSKIDI
		1				LTSOLEELEKQEQTRSKASRRE
		i				EITKIRAELKEIETQKTLQKINE
		1				RSWFFEKINKIDILLARLIKKKR
		1				
		1				EKNQIDAIKNDKGDIATDPTEI
		1		1		TTIREYYKHLCPNKLENLEEMI KFLDTYTLPRLNQEEDESLNRF
		ĺ				
		i		1		TGSEIVAIINSLPTKKSPGPDGF
		1				AKFYQRYKEELVPFLQKYKEE
		1				VPFLLKLFQSIEKEGILPNSFSE
	ŀ	1			1	SIILIPKPGRDTTKKENFRPISLM
		1			1	NIDAKILNKILANQIQQHIKKLI
		1				HHDQVGFIPGMQGWFNIRKSIN
		1				VIQHINRTKDKNHMIISIDAEKA
		١.	01000	ļ. — —		FDKIQQPSC
20904	51272	A	21027	1	181	MEEKEERKRRRKRKRRREEGR
				1		DGERKRMEKQKENQDPKDPPT
		١.			400	TSGPQT\TSPRNISPISNP
20905	51273	A	21028	167	408	LGSRTFPWEINPPSSCSLLREKE
		1				PPTTSGPQT\TRPRNISPISNLVS
		1	ł	1		GLFLLSSPTSLTIPQPLSSFNLDI
		-				TLQSLPSLNF
20906	51274	A	21029	449	663	LGSGDLPWEINTQSSCSLLCEK
		1			İ	DPPTTSGPQT\TSPRNISPISNPD
		1				TGNRTVQLTWQPVPEPLELWP
						KAL
20907	51275	A	21030	79	381	LGSGDLPWEINPLSSCSLLREKI
		ı	l			PPTTSGPQT\TRPRNISPISNPELA
	1	1	1	1		TLAGNLATGPRNARSPGFLLSF
		1		1		VLSVWDPTENQTVQLTWQPLF
		1_				QPLELWPKAL
20908	51276	A	2 I 0 3 I	122	334	LRSGDLLWEINPLSS*SLLHEKI
						Language on our mappy trapter in page
			i		l .	PPTTSSPQT\TSPRNISPISNPDPT
						ENQTVQLTWQPLPEPLELWPK

SEQ ID NO:	of peptide sequence	hed	SEQ ID NO: in USSN 09/540,217	location of first coden for peptide sequence	codon for last amino acid of peptide sequence	deletion, \=possible nucleotide insertion)
20909	51277	A	21032	109	320	LGSGDLP*EINPPSSCSLLREKD PPTTSGPQT\TSPRNISPISNPDPT GNRTVQLTWQPLPQPLELWPK AL
20910	51278	Α	21033	620	717	
20911	51279	A	21034	3	678	GGGFSDRDRTIALQPGQQIWM WGIGKQVGGCGWLRGKNRVV GAAKDQSGTGEKFYFIPKAMG AMEGSGQRRTLPDPGAHRNPS GQYSATDCEGSRPAPGEINSHA SHTKPVWWFFTQTRMKFGAVT RIGGLPWEVNPLSSCSLLREKD PPTTSGPGSNOPRKHPPISHE VHVPEIWPLQQMPAARIPPKP RPICVGPH*KSTVQLTWQPLPEI LELWPRLSD
20912	51280	A	21035	339	1098	LGSGDLPWEINPLSSCSLLREKT PPTTSGPPTTSPRNISPISNPGET KETRFIRGPKTPAPVTDWEGSL PLVFSHICKDASI.HIPPEFKGVRP RRDACLGPSPLAASPTFLGKGQ RIKTDTARLPRKPPRPSRTLSFS TAPRILSIVVPGSGHTLAFLDVT RHRLYRESKPVVGEEVDYSEW LBDVGKSEWSFSTCASSTSVNK HDTGRRLLGKRGGGMECSKGL CNFITMTKNIRSLAQMTIWQYL SPCCREPV
20913	51281	C	21036	1	438	
20914	51282	A	21037	174	483	LRSGDLPWEINPLSSCSLLHEKD PPTTSGPQT\TSPRNISPISNPRQF RHILSMDPKLRRRSWTWVGSLE LVFNHCRDASLIIHPGFRGVRPR RDVCLGPSPLA
20915	51283	A	21038	590	824	PNSSWMRGEPKKDPPTTSGPQT \TSPRNISPISNPGRLSDYSPRFQ RCQTTQGRLPWSFTLSGKSRFS GEGATWGLKT
20916	51284	В	21039	I	1596	
20917	51285	В	21040	155	2206	
20918	51286	В	21041	1	831	
20919	51287	В	21042	75	474	
20920	51288	В	21043	38	1009	
20921	51289	С	21044	335	481	
20922	51290	В	21045	66	652	
20923 20924	51291 51292	В	21046	1	673	
	151797	IB.	21047	li .	451	
		n	21049	74	2516	
20925	51293	В	21048	74	3516	
		B B	21048 21049 21050	74 783	3516 3463 807	

SEO ID	leco in vo.	TM-4	SEQ ID NO:	Total and a	Nucleotide location of last	IA
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
	sequence	""	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
	,	l		sequence	1	
20929	51297	C	21052	18	381	
20930	51298	В	21053	1	3147	
20931	51299	В	21054	1	2586	
20932	51300	С	21055	756	1403	
20933	51301	В	21056	42	205	
20934	51302	В	21057	40	420	
20935	51303	В	21058	303	1170	
20936	51304	В	21059	1	2631	
20937	51305	В	21060	19	3093	
20938	51306	В	21061	23	241	
20939	51307	В	21062	84	1775	
20940	51308	В	21063	68	1542	
20941	51309	В	21064	74	2566	
20942	51310	С	21065	730	1023	
20943	51311	В	21066	67	1159	
20944	51312	В	21067	294	929	
20945	51313	В	21070	68	336	
20946	51314	В	21071	ı	1992	
20947	51315	В	21072	1	4188	
20948	51316	С	21073	44	535	
20949	51317	В	21074	983	2636	
20950	51318	В	21076	289	1693	
20951	51319	В	21077	364	2393	
20952	51320	В	21078	471	590	
20953	51321	В	21079	1	1026	
20954	51322	В	21080	343	4253	
20955	51323	В	21081	1	819	
20956	51324	В	21082	648	894	
20957	51325	В	21083	1	1236	
20958	51326	В	21084	ī	822	
20959	51327	В	21085	211	363	
20960	51328	В	21086	193	264	
20961	51329	В	21087	1	1260	
20962	51330	В	21088	143	3158	
20963	51331	В	21089	85	353	
20964	51332	В	21090	221	598	
20965	51333	В	21091	1	4878	
20966	51334	В	21092	171	362	
20967	51335	c	21093	320	408	
20968	51336	В	21094	1	1218	
20969	51337	В	21095	i	1761	
20970	51338	В	21095	315	1224	
20970	51339	В	21090	526	3482	
20971	51340	В	21097	41	4858	
20972	51341	С	21098	38	250	
20973	51341	C	21100	157	225	
20974	51342	C	21100	191	415	
			21101	42	507	
20976	51344	В		71		
20977	51345	C C	21103	231	367 439	
20978	51346		21104			
20979	51347	C	21105	207	459	

SEO ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nuclcotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20980	51348	Α	21106	1	429	
20981	51349	Α	21107	184	544	VRLLKILQLQRFKMYVQQLDL
						TYFLRKIKCTLENGIVMSNTEA
		1				ESGVQLKPGRWGASALYSSHH
		1				IH*A*LLVPR*VSNVVCSRNDT*
		1				TKNKDTKNRRC*PKSSTRRGK*
		1				KRERKEKEVT
20982	51350	Α	21108	3	1200	LSQKEEEEDTFIEEQQLEEEKLL
		1				ERERQRLHEEWLLREQKAQEE
		1				FRIKKEKEEAAKKRQEEQERKL
		1				KEQWEEQQRKEREEEEQKRQE
		1				KKEKEKTFMWKPSVDLFSHLA
						SLRTPIICQDKGNAYQEHFPEK
						KKKRSSQLAIPEGAFGYPHHLL
	1	1				AILGLRCSRKHNFPTSSPTLLIKS
						MFTTFGMEQCRRDDYDPDASL
						EYSEEETYQQFLDFYEDVLPEF
Į.						KNVGKVIQF/KGLFEIQQCPRGK
		1				HCNFLHVFRNPNNEFWEANRD:
						YLSPDRTGSSFGKNSERRERMG
	1					HHDDYYSRLRGRRNPSPDHSY
						KRNGESERKSSRHRGKKSHKRT
		1			ŀ	SKSRERHNSRSRGRNRDRSRDR
	1	1				SRGRGSRSRSRSRRSRRSRSQ
		<u> </u>				SSSRSRSRGRRRSGNRDRTVQS
20983	51351	A	21109	789	907 1823	CPIOROSPGPAOTGRWEPLPCT
20984	31332	A	21110	236	1023	VPITLRMSEGSGGAGKMAALE
						KMTFPKKMTFPEKPSHKKYRA
1						ALKKEKRKIRRQELARLRDSGL
ĺ						SQKEEEEDTFIEEQQLEEEKLLE
1						RERERLHEEWLLREQKAQEEFR
						IKKEKEEAAKKRQEEQERKLKE
		1				QWEEQQRKEREEEEQKRQEKK
						EKEEALQKMLDQAENELENGT
1			i			TWONPEPPL\DFRVMEKDGVN
				-		CPFYSKTGACRFGDRCSRKHYF
l						PTS\SPTLLIKSMFTTLGMEQC\R
ĺ	1	1				RDDYDPDASLEYSEEETYQQFL
		1				DFYEDVLPEFKNVGKVIQFKVS
l						CNLEPHLRG\NIYVQYQSEEEC
		1	l			QAALSLFNGRWYV\AGRQLQC
l		ı				EF*TGDRWKMAICGLFEIQQCP
		1				RGKHCNFLHVFRNPNNEFWEA
1						NRDIYLSPDRTGSSFGKNSERRF
		1	l			RMGHHDDYYSRLRGRRNPSPD
1			l			HSYKRNGESERKSSRHRGKKSH
						KRTSKSRERHNSRSRGRNRDRS
1		1				
						RDRSRGRGSRSRSRSRSRRSRRS RSOSSSRSRSRGRRRSGNRDRT
20985	51353	A	21111	289	366	I NUNIVERSITATION CARCACTOCO
20963	121333	IA.	121111	1207	300	

SEQ 1D	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	ŀ	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
		l		sequence		
		<u> </u>				
20986	51354	A	21112	1	1289	
20987	51355	A	21113	60	367	EELGYAGRGMGARQPPPARKA
					1	VSPLQERAEPVGSPG*GWRSRP
						STHGIASHGGPACSLCSLHFTFF
		1		l		VDFPSLFSPICLPEGWDWQQEQ
		<u> </u>				PCLLYLSSPRCTQA
20988	51356	Α	21114	1	653	RRRGSAAGGRAAERKAEVGA
		l		I		MNMAGGKAGKDSGKAKAKA
		l				V\SRSQR\AGLQFPVGRIHRHLK
		l	i			TRT\TSHGR\VGATAAVY\SAAI
		l			l	L\EYLT\AEVLEL\AGYAS\KDLQ
	İ	l				SKSVSLPRHLQLAIPWVIEELDS
		l				LIQGLP*AGGGVIPSHPHKS\LIG
		l				KEGDSKKTALEGMLLTQPLSLP
		l				RHLYCNWDKKNNGDMWNFLP
		l				PVKWKSIDNYCRHDKRNICMF
		_				LDSEV
20989	51357	A	21115	1	1019	SVCWAGGAPRAHSTRTHA WLG
		l				RPAMEPGSVENLSIVYRSRDFL
	i	l				VVNKHWDVRIDSKAWRETGRP
		l				EP\QVASVEESGSDSGLC/HHSR
		l		ŀ		FCHQLDFSTSGALCVALLVLGG
		l				LPGSTGLPRELRAILPLLQLRGH
		l				IQESRVSIVRWGGPGPRVSPTNL
		l				TPAFCAPGCENPKPSLTGSWSG
		l				R*VWIGPAPSLIRHRPHPAGRTH
		l				QLRV\HCSALGHPVVGDLTYGE
		l	ŀ			VSGREDRPFRMMLHAFYLRIPT
		l				DTECVEVCTPDPFLPSL\DACWS
		l				PHTLLQSL\DQL\VAGLKGQPPD
		1	ľ			P*TRG*GGPRPGSPSALLPGHGR
		1				PPPPTTKPPETEAQRGPCLQWL
		_				SEWTLEPDS
20990	51358	Α	21116	698	1472	RWAPRRGLSVDLDGGSSAPLCP
		1				PATTARLDAEPHGSLPNSCLWE
		l				CSCLLQGIWAAGPSGLSLHYPP
		l				LSSPLGSSPPSRPQRLVLIRAGR
						GGWVGSVGETMTSSYGHVLER
						QPALGGRLDSPGNLDTLQAKK
						NFSVSHLLDLEEAGDMVAAQA
						DENVGE\SSRTRGGGAGLGKGL
		l		l		SGVQTQRASAVWESSRLKMLS
		l				RVGRASLGQRMTA*GRLQLYP
		l		1		HAPKSVTDRSPCSSQVTKSWNR
İ		1		l		GALQHSMIFTKRCLFQTLKE

SEO ID	SEO ID NO:	Met	SEO ID NO	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
20991	51359	Α	21117	50	1226	KMAEEVVVVAKFDYVAQQEQ
	l .		l			ELDIKKNERLWLLDDSKSWWR
	l	1				VRNSMNKTGF\VPSTYVGR\EN
		1				SARKASIVKNLKDTLGIGKVKR
		1				KPSVPDSASPADDSFV\DPGERL
	l	l				Y\DLNMPA\YVKFN\YMAERED
		l				ELS\LIKG\TKVIVMEKCS\DGW
		l				WRGTYNGQVGWFPSNYVTEE\
		l				GESPLGDHVGSLSEKLAAVVN
	ŀ	l				NLNTGQVLHVVQALYPFSSSN
		l				DEELNFEK\GDVMDVIEKPEND
		l				PEWWKCRKINGMVGLVPQKL
		l				W*PLLQSIQLTSGLGTLTFQCGF
						IRPYIPGKFVGNPWYYGKVTRH
		i				QAEMALNERGHEGDFLIRDSES
1		1				SPNDFSVSLKAQGKNKHFKVQ
		l				LK\ETVYCIWQRKSCTME*LVE
		1				HYK\KAPNFYNVNKGEKLYLV
20992	51360	Α	21118	132	428	
20993	51361	Α	21119	3	337	AKLAGAAVPVCARGRAAPLAA
		ı				AALPAARL\PSGAGPAGLVSDV
i .		ı				RRRPFARE/PEPRVP/SQPPALSA
						LGALALKLFSSPPSCWSFSVKT
						GVLVPWIMCISWPYFLSGNLLT
						MMW
20994	51362	Α	21120	438	1066	LNQKGKGGRGEALKNDLVVAP
		l				PPSPRRGVR*EALHVPDTGPFK
		l				KPRKRK*NQRQREAERK*TFPR
1		l				EEEARRETHGPLPAPRPPPPLCP/
1		l				PAASSAPRPGPKGAR*LSLSAE
		l				GRARRSAGASGGAGAAATAA
		l				AAAAPEHPRGSEPRQPASPAPQ
1		l				RERPRRPAPRLPPQCPRPSKGRA
		l				WTLQTTTGQKVCTGAGTRRA
						WRRAGAVRRAFWA
20995	51363	A	21121	1	924	
20996	51364	A	21122	1	435	
20997	51365	A	21123	1	524	MOVEGRA HAGGREEN HEGA C
20998	51366	Α	21124	1	602	MGKGSPAHAQGPGSFLHGGAG
		l				DQGRGRPITLYEDRGFQG\RHY
1		l	l			ECSSDHPNLQAYLSRCNSVRVD
1		l	l			SGCWVLYEQPNYSGLQ*FLRR
1		ı	l			GDYADHQQWMGLSDSVRSCR
		1	l			LIP\HASSHRLRIYEREDYRGQM
		1	İ			VEITEDCSSLHDRFHLSEIHSFN
1		1	1			VLEGSWVLYELPNYQGRQYLL
		1	1			RPGDCRWCQDWGATDARVGS
	L	_				LRRAVELY
20999	51367	Α	21125	I	1239	
21000	51368	Α	21126	298	408	
21001	51369	С	21127	92	241	

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, ^=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21002	51370	Α	21128	33	191	RDDPRVRPPPNSHT*PQQEPGL* LIKCTSPPQAPAPRTVHGPYFY MRLIKMF
21003	51371	Α	21129	3	1285	
21004	51372	A	21130	3	3468	OPGHTYLLPTVVICNLLFCELD FYVKGMPINGTURPGKEALD TADTSQNIELGVSLENFPLCKEL LIPPGTQNYMVRMRLYDVNRR QUALTIRIVCRAEGSLKIFISAPY WLINKTGLPLIFRQDNAKTDAA GOFEBHELARSLSPLLETVADE EOPRILCTMRIGGGHPEGMPGW CQGFSLDGGSGVRALKVIQQG NRPGLLYNIGIDVKKGRGRYIDT CMVIFAPRYLLDNKSSHKLAFA QREFARRQGT
21005	51373	Α	21131	3	451	
21006	51374	A	21132	2	107	LEGLEES/VRDRCKKEFTDLMIE MDSRLLGPTSKVK
21007	51375	Α	21133	2	158	PGIPVL/DYRTYTDGFFSLPSKD GDKDVMITGKLDILKPQNQHR VFTVESRVI
21008	51376	A	21134	2	5632	EVRRTCRESSCWPGAETELDH WSLGEGVRGAMALQLWALTL LGILGAGASLRPRKLDFFRSEK ELNHLAVDEASGVVYLGAVNA LVQLDAKLOLEQQVATOPALD NKKCTPPIEASIQCHEAEMTDN VNPLLLUDPPRKLDVECQQLLK GICALRALSNISLRLFYEDOSG EKSFVASNDEGVATVGLVSSTG PGGDBVLFVGKGNGPHDNGIU YSTRLLDRTDSREAFEAYTDHAT YKAGYLSTNTOQFVAF
21009	51377	A	21135	168	5568	AREKCOGAMGAGSSTEORSPE OPPEGSSTPAEPEPSGGGPSAEA APDITADPAIAASDPAITKLLQK NGGLSTINGVAEQDELSLQEGD LNGQKGALNGQGALNSQEEEE VIVRQVDHIDSEDVSDRDSDTE MTTKSAVVHDITDDGGETPDI IEGIPSSESNLEELTQPTESQAND IGFKKVFKFVGFKFTVKKDKTE KPDTVQLLTVKKDEGEGAAGA GDHQDPSLGAGEAASKESEPK QSTEKPEETLKREQ

SEQ ID	SEQ ID NO:		SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide sequence	hod	in USSN 09/540,217	location of first codon for peptide sequence	codon for last amino acid of peptide sequence	*=Stop eudon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21010	51378	A	21136	807	1162	ISYHGGRRRRPQ/PVGPLGSCRS *SSRRWSTTGRTTFRAGWKSCS TPPSTSSLPTSTGTW*GPGTSAL LPPTPLPPPRAAATPCACACASE SRMPAARALGLRVRRRLLEGRS GKDTQG
21011	51379	A	21137	1	562	
21012	51380	A	21138	1	423	
21013	51381	A	21139	Ì	1871	MTTFKEAMTFKDVAVVFTEEE LGILDLAQRKLYRDVMLENFR NLSVGHQAFRDTFHFLREEK IWMMKTAIQREGNSGDKIQTE METVSEAGTHQEWSFQQIWEK, ASDLTRSQDLVINSSQFSKEGDF PCQTEARTICNSHKTEI/FPRA/I GYKPSFSDVSHFDFHQQLHSGE KSHTCDECGKNFCYISALRIHQ RVHMGEKCYKCDVCGKEFSQS SHLQTHQRVHTGEKPFKCVEC
						GKGFSRRSALNVHH
21014	51382	A	21140	1056	2988	FICLIOBKIQTEMETYSEAGTHIQ EWSFQQIWEKLASDLTRSQDLV INSSQFSKEGDFPCOTEARTICN SKIETIPRAIGYKPSF3DVSLF DFHQQL HSGEKSHTCDECGKN FCYISALHINHQRVHMGEKCYK TVEKPFKCVECGKGFSRRSALN VHHKLHTGEKPYNCEECGKAT TVEKPFKCVECGKGFSRRSALN HHSQLQEHGQRHTGEKPFKCDI CGKSFCGRSRLNRHSNWHTAE KPRECNTCDKSFRQRSALNSHR MIHTGEKPYKCEECGKGFICR DLYTHHMWHTGEKPYNCKECG KSFRWASCLLKTSSESHSGEKP FKCEECGKGFTTISQCYSHIQR SHSGEKPYKCVECGKGYKRRL DLDFHQRVHTGEKLYNCKECG KSFSRAPCLLKHERLHSGEKPF CQEEGGKFFTNSHLHSHQRV HTGEKPYKCEKCGKGYNSKFIL VMHQRVHTGERFYNCKECG SFGWASCLLKHQRLHSGENPFK CEECGKRTTONSQLHSHQRVH TIGERPYKCECGKGFSWSSTR LTHQRRHSREFPL KEGOHGK NIVQNSFS/EKLPEKVHQ-*KK PYKCEDLCGKGYNSREFIL VHQRNFSSFSKLPEKVPCECFC

2663

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
		_				
21015	51383	A	21141	154	1470	KDGDHMGYTYKVIERILEIGAF
1						RPHMSLGQLQSARGVACLGCK
1					İ	GTCSGFEPHSWRKICKSC\NAA
						KRTTA*HLT*KNDRKLGRWLR
						DSKYSTLHLLG*KAGTASGFYK
						RNP\MI\LTNPIATGKDPTFDTIT
						YEWGSPWEFTQETGDCSYMGA
						HSPREEGSQLTGHQRGAFYRA
1						ARPAHAPGLPIYD\QDPLALPVD
1						FWRNELKTEWKEFVK\KYKSE
						GPSALGEVALPGQGWLAPRKE
						GE/GSRKKPEGGRRP/PAATTNG
			ļ			SLSDPSKEVEYVCELCKGAAPP
						DSPVVY\SDRAGYNKQWHPTCF
			l			VCAKCSEPLV\DLIYFWKDGAP
						WCGRHYCESLRPR/CAPACDEI\
			İ			IFAEDYQRVEDLAWHRKHFVC
						EGCEQLLSGLGVHRHPGVQLL
						VPQLAASPKRSLKGCPTPQPESP
						GIPTEKDKPGCARDPSLRVPDV
1			i			TSKPSEINQ
21016	51384	A	21142	1	1332	TSKI SENIQ
21017	51385	c	21143	147	272	
21017	51386	A	21144	160	374	ETPVSSRCEKHVSSPHLCPGIHR
21016	31380	n	21144	1,00	3/4	AVSLSSH\STCGRSWRSELHGPQ
						STNLSGNTELPLHFLFGAWQTG
		l			ŀ	VFKM
21019	51387	Α	21145	3	4366	LGAQORELOEALGARAALEAL
21019	31367	<u>۱</u> ^	21143	ľ	4500	LGRLOAERRGLDAAHERDVRE
						LRARAASLTMHFRARATGPAA
1		l				PPPRLREVHDSYALLVAESWRE
1	1	ŀ				TVOLYEDEVRELEEALRRGOES
1		1				RLQAEEETRLCAQEAEALRREA
		l				
				ļ	ŀ	LGLEQLRARLEDALLRMREEY
		l				GIQAEERQRAIDCLEDEKATLT
		1			f	LAMADWLRDYQDLLQVKTGL
1		l			ŀ	SLEVATYRALLEGESNPEIVIW
		l			İ	AEHVENMPSEFRNKYYHYTDS
		_				LLQRENEWNLFSRQKAPLAS
21020	51388	A	21146	1	4617	RVIDCLEDEKATLTLAMADWL
		l			ļ	RDYQDLLQVKTGLSLEVATYRI
		l	1		[VEHVAVEGVSKLWKPLWQKS
		l				QSLVISSGVSFTGGRLNLERLRR
		1	1		1	GPTPLASTESVKQVLVNNRMII
		1				DDEMVKTLAMSRTCSAPNPLT
1						ADVKTWSRSYRSEDAATGPVL
	1			1	l	GVASTVALLEGESNPEIVIWAE
		l			l	HVENMPSEFRNKSYHYTDSLL
		l				QRE\NERNLFS\RQKAPLASFNH
						SSALYSNLSGHRGSQTGTSIGG
			1			DARRGFLGSGYSSSATT
					1	

SEQ ID	SEQ ID NO:		SEQ ID NO:			Amino acid sequence (X-Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21021	51389	Α	21147	2	435	<u> </u>
21022	51390	Α	21148	1	1233	MCEEETTALVCDNGSGLCKAG
					1	FAGDDAPRAVFPSIVGRPRHOG
					l	VMVGMGQKDSYVGDEAQSKR
						GILTLKYPIEHGIITNWDDMEK
		l				KKEAEELARNMAIQQELEKEK
İ						QRVAQQKQQQLEQEQFHAFEE
ĺ			l			MIRNQELEKERLKIVQEFGKVD
l						PGLGGPLVPD/SGEALLRCVPHL
						NSLIHTAFRLSHNCKAS*ATCG
1					ĺ	GQVLETWSTEQLRKYSHNRWI
						APCGGAWAAVPTVSPVSQCQH
			i			CPGSGDMWNSLWKTDEE*IYH
				i		YPCSHPQAKCWV*LLQHRERR
		1				RTFPHTGSAGPHHTGLDSCKQF
						*AVREHGVR\GIHETTYNSIMKC
						DIDIRKOLYANNVLSGGTTMYP
						GIADRMQKEITALAPSTMKIKII
i				İ		APPERKYSVWIGGSILASLSTFQ
						QMWISKPEYDEAGPSIVHRKCF
21023	51391	Α	21149	2	1273	PRVRPRVRPRVRSLGEEPLIPSV
				1		LRSPAHSATHTMCEEETTALVC
		l				DNGSGLCKAGFAGDDAPRAVF
		l				PSIVGRPRHQGVMVGMGQKDS
		l				YVGDEAQSKRGILTLKYPI\EHG
		l				MITNWDDMEKIWAPLLLTMEL
		1			1	RVSTWKRHPTLLTEAPLNPKAN
ł		1				REKMTQIMFETFNVPAMYVAI
1		l				QAVI.SLYASGRTTGIVLDSG\D
		1				GVTHNVPIYEGYALPHAIMRLD
		1				LAG\RDLTDYLMKIL/AKRGGY
		1				SFVTTAEREIVRDIKEKLCYVAL
						DFEK*\MATAASSSSLE\KSYELF
		1				DGAGLSPIGKWTLP\CPETLFQP
1		1	l	l	1	YFISNGVPLEFNDDNLTIPSMK\
	l	1		l		CDIDIP*GLICPTMFLSGGTTHV
1		1	l	l	1	PWALLDRIQKENPSPGPPGTMK
				1		IKI\IAPPEREVTSVWD/LGGSILA
1		1	l	l		SLSTFQA\MWISKPEYDDAGPSI
		<u> </u>				VHRKCF
21024	51392	Α	21150	95	674	

GEAGSSLGFSGNTPTNGLPARG DQTSYRDFWSGPGPPDTSLRTA APGAREQCCTHGGEGSTLEGSR PDVPQDLFSPTLGFYGSTYPELE QGMLGGH*GFBEAVQGLQVCP GEAGSSLGFSGNTPTNGLPARG DQTSYRDFWSGPGPPDTSLRTA APGAREQCTHGGEGSTLEGSR PDVPQDLFSPTLGFYGSTYPELE QGMLGGH*CFFGSTSTPESC GAGFKGVALAMLSKITMCVRIG ILVFQQDGSMCKAFSTTGMG ILVFQQDGSMCKAFSTTGMG ILVFQLDGSGASYR AHDVNVLPGCSGPAALLLGDW FSLHSSDAVLPAQGQGMLSQG EADACTTLPILFPSREVYELLGL EAGGLIPGAGEOPPEMGLVRGP PAVAAGPPRWLSPEFCLLQYS EEEGCKEPLWLKVEAEVSTLYR FMPTGFTRGFPNIEHREWGNTT ATWTRMISNHNKHSQRGRMT ARLPGCAGPHFSNETDDB*WRR SSLLTRSGCQTERLLTSQTEPLP AGGSPFFSNGETGQRRSSPPQR GCDRPQALLISTCTPLP AGGSPFFSNGETGQRRSSPPQR GCDRPQALLISTCTPQCRSSPPQR	SEQ ID NO:	SEQ ID NO: of peptide sequence	hod	SEQ ID NO: in USSN 09/540,217	location of first	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codun, /=possible nucleotide deletion, \=possible nucleotide insertion)
	21025	51393	A	21151		1536	DOTSYRDEWSCPOPPDTSLRTA APGAREQCGTHGGEGSTLEGSR PDVPQDLFSPTLGFYGSTYPELE QGMLGGH*G/PAENQGLQVCP GEAGSSLGFSSNTPTNGLBAC DOTSYRDFWSGPQFPDTSLRTA APGAREQCGTHGGEGSTLEGSR DVPQDLFSPTLGFYGSTYPELE QGMLGGHVEASREVQMLSHV GNPDYPHALATEQATSPTESG SAGFKGVALAMLSKITMCVRIG ILVFQQDQGSMCKAFSTTGMG ILVFQUDQGSMCKAFSTTGMG LVTYLLTCRAWSRLQCGASY AHDVNVLPGCSGPAALLLGDW FSLHSSDAVLPAQGGGMLSQG EADACITLPHLFSREVVFLLGL EAGGLIFGAEGPPEDMGLVRGP PAVAAGPPRWLSPEFCLLQVS EEEGCKEPLWLKVEAEVSTLYR FMPTGFTRGFPSIEHREWGNTT ATVTRINISHNKHSQRGRMT ARLPGGAPHESDRTDDKWRR SSLLTRSGCYTERLITQTTELP AGGSPHFSNCETGQRRSSPPQR

2666

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X-Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21026	51394	A	21152	689	2176	PATSPTSRAMAQPSAPAASMLL PCPECPSGPRMTCCLSVSTFCS PSLRRPPGSIKGSSGLGGGGSSRT SCRLSGALGAGSCRLGSAGGL GSTLGGINSYSSCYSFGSGGGY GSSFGGVVOLLA/GGEKA/TMH NLIPDLASYLDKVPCPWKEAN PLEEWKIRDWYQRQAPGPAR DYSQYYRTIEELQNKILTATVD NANILLQIDNARLAC/ADDFRT KIVETEQALRUSVEADINGLIR RVLIDELTLARADLEMQIENLK EEA WPTLKERTTEGRRLNALR GQVGW*RSMLEMDAAPGVDL SRILNEMPSCVDHRYTRCINRP GAELKLGSGGVTEELRREWAT NSELVQSGKSKISEL/RRTMQAL EIELQSQLSMKA/SLEGNLGGD RATAYCVQLSQIQGILIGSGED QLAQLR/CEMEQQ/NQDYKILL DVKTRLEQEIATYRRLIEG/ED AHLTQCKKEPYTTRQVRTIVG
		_				KRSRD\GKVILLPRSRFHQTTR
21027	51395	С	21153	58	252	
21028	51396	Α	21154	2	190	
21029	51397	Α	21155	2	432	KMADGVDHIDIYADVGEEFNQ EAEYGGHDQIDLYDDVISPSAN NGDAPEDRDYMDTPPPVBGYG PPPGPPPPQQGPPPPPGPPPPQ GPLGPPLD/TLAPPPHLPGJPPNG VAPPPAYPHVESFLFLPPINSGH GLHSDRPRFH
21030	51398	A	21156	1	1070	MGGIGARAAAAGKGRRRARAR PPOLPPTSDGGGAAAAASSLR RLHAAPPPOPSAAGSASRVPPTI GSEAAPAREDRRGUHSGVENAS GSPRLTERPRVKRGGTRGGA PRQGSAARPRGGKGAHSAVAS ARAAAOPGSASRHHGAASAAG TWALTYLUELPADIRVNYVY HAVRIHLPSACAAAAAASCRF ALVGVGSEASSKLLMDLLPKR ELHGQNPVVTPCNKQFLSQFE MQSRKTTQSGQMSGGGKAGPP GGSSRAAPPOGGBGRGRFPGA VPGGDRFPGPOGBGGRGFPGA VPGGDRFPGPAGPGGPPPPFQD PSVNSDPVCCTFG/EH*PPGYQT PSNLSVEPMAKPKPEGTDLSRS REGFFKSRFAPN

SEO ID	ISEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleatide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				scquence		
21031	51399	A	21157	63	1750	MKMAGGVNHIDIYADVGE*FN
		l				QEA\EYGGHDQIDVHDDAISPS
		l			i	ANNGDAPEDRDYMDTLPPTVG
		l				DDVGKGAAPNVVYTYTGKRIA
1						LYIGNLTWWTTDEDLTEAVHS
l		ĺ				LGVNDILE\IKFFENRANGQSKG
						FALVGVGSEASSKKLMDLLPK
	İ					RELHGONPVVTPCNKOFLSOFE
						MOSRKTTOSGOMSGEGKAGPP
						GGSSRAAFPQGGRGRGRFPGA
						VPGGDRFPGPAGPGGPPPPFPA
			•			GOTPPRPPLGSFOGPPG\PPGPPP
						PGQVLPPPLAGPPNRGDRPPPPV
						LFPGQPFGQPPLGPLPPGPPPPV
						PGYGPPPGPPPPOGPPPPPGPF
						P\PRPTGSNLGHPLTLAPPSASFP
		l				GP\PP\GAPPPSPHVNPAFFPPPT
		1				NSGMPTSDSRGPPPTDPYGRPPP
1						YDRGDYGPPGREMDTARTPLS
		l				EAEFEEIMNRNRAISSSAISRAV
						SDASA/GVDYGSAIETLVTAISLI
			l			KTIPKYPADD/RCTKFLISSLQD
		1		i		CLHGIESKSYGSGSRRRERSRER
i		l				DHSRSREKSRRHKSRSRDRHDD
		1			İ	YYRERSRERER\HRDRDRD\RD
l		1	İ			RERDREREYRHR
21032	51400	Α	21159	1	96	TNFKSGLLGLAAED*HCPIASE
		1				AP*TITDAEL
21033	51401	A	21160	1	1056	MWKGPKGLDMYGKSSVSPKTS
ĺ				1		DILGRDTLLLALKVQTVVLQTA
İ						CGEGHVAGNCGRPLETEGSLQ
						LTATKKLRDSVLQPKSPEFCQQ
						FTRAWNRTQVPDETEAPAGTY
			ĺ			AAQSGDLPWEINPLSSCSLLHE
l	İ		•			KDPPTASGPQTDQPKEHLTNFK
				l		SGFRGVRP/LQGRLPWSFTLSGK
						SRFSGEGASTPTPSLCVSTPSPPF
						WGARNTQPLLLHPEWQ/CPLF*
1	1					RSKYPNLVSLCPSPLFPRPDLLS
1						L/SAQSLISAPQPLISLCPNPLFPC
1						PDLLSLHPNPLFPRPNPFPAFLE
	l	ĺ				GACYKCQKSGHQAKECLQPGI
		l	1			PPKLRPICAGPHWKSDCPTHLA
		L				ATPRAPGTLAQGSLTASQIFLA
21034	51402	С	21161	283	408	

SEO ID	ISEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hnd	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion; \=possible nucleotide insertion)
		l		sequence		
01025	151402	 -	21162	la .	505	WATENOCK PLEODER OF ALL COLOR
21035	51403	A	21162	3	303	ILNPVSGLFLFSSPLSLNLSSLSL
		1		l		NLFLLSILAPHFNLSILLISIPFIFP
		l				LEIELSNSPGSHSQSPWNSGPRL
					1	SDSFPDLLGLAAEE*HCPIASEA
	ĺ				1	FSQTYRAYLSLSLSLSLSPEPPT
						AGDGVT/HSSPVASTTITVLGQT
						/SKPAQCWPLPKVCCHHSLTSD
		_				YVHPRP
21036	51404	A	21163	164	420	LANFCEESGAGEPGSHSQSPWN
1		l				SGPRLSDSFPDLLGLAAEDRHC
		l				PIASEAPLLQRKSLYKSPCTSSTI
						S*CCIPRSGISESLSVN
21037	51405	A_	21164	50	298	
21038	51406	Α	21165	49	433	SSSGIWPSHSQSPLRSSPAKLLS
		l				RFRCSLSSLLLCLATLLLVWQP
	1	1				LPEPLELWPKA/HLTDSFPDLLG
		1		ł		LAAED/W/HCPIPSEAP*TLTDAE
		l				LRVTLTVEGKSIPFGAGKEVTL
		1				ESYWVSLTLSFLICYMII
21039	51407	Α	21166	282	374	CDLFLPHPN*SMYFVISPTPKKV
						LCNSPHT
21040	51408	Α	21167	71	333	LRSGDLPWEINPLSSCSLFREED
						PPTTSGPQTNQPKEHLTNFKSA
		1				AED*RCQFASEAP*TITDAKLRV
		1				SLTAEGLLATLFLNPKPEY
21041	51409	Α	21168	113	342	AFGCFTTGVGRVTDSDGPLYTG
1		1				PWAPGSHSQSPWNSGPRLSDSF
1		l				PDLLGLAAED*HCPIASEAPFLT
						LIFLLCVIQ
21042	51410	Α	21169	301	608	TFTPLKSYIKAPSSAGPVAEQE
						MTPEGKVGAGPE*LTWKNQFL
	1	l				FY
21043	51411	Α	21170	2	724	FLVSLMLPPAVVMLNHCYSLIF
					1	TNALVKRLFAWNMLSELATCA
	ļ					GNLATGPRNARSPGFLLSCVPS
		ı				VRDPTGNQTVQLTWQPLPEPLE
		ĺ				LWPKA/HLTDSFPDLLGLATED
		1	1			*HSPIASEAPWAIMDAELRVTL
		1	l			TVEDRDSSSSSSSSSSSSSSSSSS
1		l	1	l	1	SSSSSSSSSSSSSQSSSSSSSSPCD
1		1		1		LFLPHPN*SMYFVISPTLKKVLY
		l		1		NVTHP*EVSL*FSPPLRMYFVRS
	1			l		IPCPONIALNSTAYP
21044	51412	A	21171	442	501	
	1	l	1	1		

SEQ ID	SEQ ID NO:		SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21045	51413	Α	21172	266	1003	SCMCLALDPCNHGEGHQPDFS
		1				GVKFRRHGADNHEASAATATT
	1	l				AAATTVAAAAAAAAAAAAA
	ł	1			l	VTLTGSHFQSPWNSGPRLSDSF
						PDLLSLATED*RCPIASEVPWTI
						TEAELRVTLTVEGKSIPCLIDTG
		l				ATHSTLPSFQGPVSLAPITVVG\1
		İ				DGQASKPL\KTPPLW\CQLGQH
		l				SFMHSFLVIPHL/CPIFLIRGRNIL
	l					TKLS\ASLTIPGSTANISLVAFFP
						NPKPPLCPLTSPQYHPLPQDLPS
						A
21046	51414	A	21173	2	245	LTALLRKSLDPRLISTGENTQTA
	l					ETMGPLSAPPCTQHITW/KGLLL
	i	1				TAETPKPSISSSNLNPRGGHGRL
		1				CALILLILEDSG
21047	51415	Α	21174	3	324	
21048	51416	A	21175	3	552	
21049	51417	Α	21176	3	435	
21050	51418	Α	21177	3	1459	GAVRTWGRGFQTEKCQASLLN
1		ı		l		FWNPPTTAQVTIEAEPTKVSKG
		1				KDVLLLVHNLPQNLAGYIWYK
		1				GQMKDLYHYITSYVVDGQIIIY
		1		i		GPAYSGRETVYSNASLLIQNVT
		1		•		REDAGSYTLHIVKRGDGTRGET
		ı		ĺ		GHFTFTLY\LIPWTLLYL*RSLA
		1				QVSHYETPGKTAPPCGSTA**L
		l		l		N*PPDLTLFSPVLFLLKYPVPGQ
		l				AFQYPKGLKTIGSSITHL*DVLG
		ı				KGSCRENIPRAAK*D*N*EDSST
i		ı		1		ACSK*GPQVETPKPSISSSNLYP
	i	l				REDMEAVSLTCDPETPDASYL
		1				WWMNGQSLPMTHSLOLSKNK
		l				RTLFLFGVTKYTAGPYECEIRN
	1	i				PVSASRSDPVTLNLLPKLPKPYI
		1		l	I	TINNLNPRENKDVLAFTCEPKS
		l		l	1	ENYTYIWWLNGQSLPVSPRVK
		l		l	1	RPIENRILILTOCSREMKOGPY\
		l		l	I	OCEIO\DRYGG\IRSYPVTLECP/
ı		ı			1	HITTKHSGLYACSVRNSATGME
		I	l	l	1	SSKSMTVKVSAPSGTGHLPGLN
	1	1	1	ı	I	Joonowi I VK V SAPSU I UHLPGLN

2670

SEQ ID	SEQ ID NO:		SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN 09/540,217	location of first	codon for last aminn seid of peptide sequence	*=Stop codon, /=possible nucleotide deletion, \-possible nucleotide insertion)
	sequence		09/540,217	eodon for peptide sequence	or peptide sequence	uciction, v-possible nucleotide insertion)
21051	51419	A	21178	3	1445	IRADPAHELENCSCPGKRLSTE
						RGRTAOLTAVLREFLDPRLISTE
	ŀ	1				ENTQAAETMGTLSAPPCTQRIK
		1				WKGLLLTASLLNFWNLPTTAQ
		ı				VTIEAQPPKVSEGKDVLLLVHN
ĺ		1				LPQNLTGYIWYKGQMRDLYHY
		1		İ		ITSYVVDGEIIIYGPAYSGRETA
		1				YSNASLLIQNVTREDAGSYTLH
						IIKGDDGTRGVTGRFTFTLHLET
		1				PKPSISSSNLNPRETMEAVSLTC
						DPETPDASYLWWMNGQSLPMT
						HSLKLSETNRTLFLLGVTKYTA
						GPYECEIRNPVSASRSDPVTLNL
	ŀ					LPKLPKPYITINNLNPRENKOVL
						NFTCEPKSENYTYIWWLNGQSL
		1				PVSPRVKRPIENRILILPSVTRNE
		l				TGPYQCEIRDRYGGVRSDPVTL
		l				NVLYGPDLPRIYPSFTYYRSGE
		1	ĺ		i	VLYLSCSADSNPPAQYSW\TINE
		1				KFQL\QGQKLFIP\HITTKHSGLY
					i	V\CSVRNSATGKESSKSMTVEV
						SGKWIPASLAIGF
21052	51420	Α	21179	3	1380	TAQLTAVLREFLDPRLISTEENT
						QAAETMGTLSAPPCTQRIKWK
		l				GLLLTASLLNFWNLPTTAQVTI
		l				EAEPTKVSEGKDVLLLVHNLPQ
		l				NLTGYIWYKGQMRDLYHYITS
		ı				YVVDGEIIIYGPAYSGRETAYSN
ł						ASLLIQNVTREDAGSYTLHIKG
		1				DDGTRGVTGRFTFTLHLETPKP
						SISSSNLNPRETMEAVSLTCDPE
						TPDASYLWWMNGQSLPMTHSL
		l			l	KLSETNRTLFLLGVTKYTAGPY
					1	ECEIRNPVSASRSDPVTLNLLPK
						LPKPYITINNLNPRENKDVLNFT
						CEPKSENYTYIWWLNGQSLPVS
1		1			l	PRVKRPIENRILILPSVTRNETGP
						YQCEIRDRYGGIRSDPVTLNVL
				1	l	YGPDLPRIYPSFTYYRSG\EVLL
l		1		l		LVLFCGTLNPP\AQYSWTINEKF
						QLPGQKLFIRHITTKHSG\LYVC
1		1			l	SVRNSATGKESSKSMTVEVSAY
L	L		L		L	SSSINYTSGNRN

SEO ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequenee		
		$ldsymbol{ld}}}}}}}} $				
21053	51421	A	21180	2	1341	TEGGRTAQLTAMLRQLLDPRLI
						STEENTQAAETMGPLPAPSCTQ
	1					RITWKGLLLTASLLNFWNPPTT
İ						AEVTIEAQPPKVSEGKDVLLLV
		1				HNLPQNLPGYFWYKGEMTDLY
						HYIISYIVDGKIIIYGPAYSGRET
l						VYSNASLLIQNVTRKD\AGT\YT
						LHIIK\RGDETREEIRHFTFTLYL
						ETPKPYISSSNLNPREAMEAVR
			l			LICDPETLDASYLWWMNGQSL
						PVTHRLQLSKTNRTLYLFGVTK
			i			YIAGPYECEIRNPVSASRSDPVT
						LNLLPKLPIPYITINNLNPRENK
1	•					DVLAFTCEPKSENYTYIWWLN
		1				GOSLPVSPGVKRPIENRILILPSV
						TRNETGP\YOCEIRDRYGGIRSY
						PVTLNVLYGPDLPRIYPSFTYYR
l .				İ		SGENLOLSCITESNPPAEYFWPI
						*GKFQQSGQKLFIPQITRNHSG
1						LYACSVHNSAAGKEISVSLFRH
21054	51422	Α	21181		1532	MTOFPMDKROGRSRSVAITNT
21034	31422	^	21101	ľ	1332	AVTSLEWVPFHAFAIPRSTLVS
1		1				QORLSTERGRTAQLTAVLREFL
1	Ì	l				DPRLISTEENTOAAETMGTLSA
		l				
		ı				PPCTQRIKWKGLLLTASLLNFW
	l	l		ł		NLPTTAQVTIEAEPTKVSEGKD
	l	l				VLLLVHNLPQNLTGYIW\YKGA
	ŀ	l		l		MR\DLYHYVTSYVVDGQIIKYG
	i	l				\PAYSGRETAYSNASLLIQNV\T
1		l				RED\AGSYTLHIIKGDDGTRGVT
		l				GRFTFTLHLETPKPSISSSNLNPR
1		l		l	ì	ETMEAVSLTCDPETPDASYLW
		l				WMNGQSLPMTHSLKLSETNRT
		l		ł		LFLLGVTKYTAGPYECEIRNPV
		l				SASRSDPVTLNLLPKLPKPYITI
		l				NNLNPRENKDVLNFTCEPKSEN
		l	ŀ	l		YTYIWWLNGQKPP/VSSPRVKR
	1	I	l	l		PH*KTGSLIPTPVFTRNETGP\YQ
		l		l		CEIRAR\YGG\IRSDPVTLNVLY
		I	1	i		GPDLP\RIYPSFTYYRSGGKSSY
1		ı	l	l		LSCFCGTSNPP\AQYSW\TIN*K
		l		l		VFSLPGTKALYSRHITTKHSGL
	1	I		I		YVCSVRNSATGKESSKSMTVE
		ı				VSDWTVP
21055	51423	В	21182	28	29751	
-1005					· · · · · · · · · · · · · · · · · · ·	L

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	ĺ	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21056	51424	Α	21183	158	1660	EASLLEDDDGMVYLRPLTSHO
						YRTAOLRAMLRKFLDPRLSSTE
				[ENTQAAETMGPLSAPPCTQRIT
						WKGLLLTASLLNFWNPPTTAO
				1		VTIEAEPTKVSKGKDVLLLVHN
						LPONLAGYIWYKGOMKDLYH
						YITSYVVDGQIIIYGPAYSGRET
						VYSNASLLIONVTREDAGSYTL
						HIVKRGDGTRGETGHFTFTLYL
				1		ETPKPSISSSNLYPREDMEAVSL
						TCDPETPDASYLWWMNGQSLP
						MTHSLQLSKNKRTLFLFGVHK
			Į.			VHCRDPMECEIREPS*VASRS*P
						SSPWNLLPKL\PKPYITI\NN\LNP
						REKKDVLAFT\CDP\KSRNYTYI
ŀ		l			İ	WWLNGQSLPVSPRVKRP\IENR
						DPSFLP\SVTRNETGP\YQCEIRD
İ		ı	ŀ			\RYGG\IRSYPVTLNVLYG\PDLP
						RIYPFISPIYHFREENLRTLSCFC
						GTFNPPGRVFLGTINGGSFQVIQ
						GQKALYSPRITTKHSGA/LYAW
	ļ					LCSVTSRPLAWESSQIPWTV\KV
						SGSFQGTGTSSWGLNPL
21057	51425	Α	21184	927	1378	QPPTLRSWDCWFAWGKRQLM
		1				SSP/STEPQVCFTIEGHEIDFLLG
	1	1				TGMAFSVLISCPG*LSSRSVTIR
		1				GILG*PVTRYFSHLLSCNWETLL
	l .	1				FSHNAKTQGGGTLTLPKPSKSH
		1				RPWAVRGLAPGPAAAVLNFSP
						GLSCLPTGQGLGPAAHHA
21058	51426	Α	21185	1	221	ILLAQLESQDGDILRQRDEFDLL
		1				VAGEICRFSALIEELE\EKNERPA
	1					RELLTVRPEPEPCPTCAVLRLLH
1	1					LCLA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X-Unknown, *-Stop coden, /-possible nucleotide deletion, \-possible nucleotide insertion)
21059	51427	A	21186	335	1963	VCDPALPPWAKQREWALEGSH SSRTSMGLLVASVTSLGRWKF NCPVEVQOTILKEAGSLSNCG/H KNFCRACLTNRYCEIPIGFDULEE SPITCPLCKEPFRPGSFRPNWQ LANVVENIEBLQLVSTLGLGEE DVCQEHGEKIYFFCEDDEMQL CVYCREAGEHATHTMRFLEDA AVAPYREQHKCLKCLEKEREEI QEIQSRENKRMQVLLTQVSTKR QQVISEFAHLRKTLEEQQSILLA QLESQDGDILRQRDEFDLLVAG EICRFSALIEELEEKNERPAREL
						LIDIRSTLIRCETRKCRKPVAVS PELGQRIRDFPQQALPLQREMK MFLEKLCFELDYEPAHISLDPQ TSSIPKLPLVPRTICRAQFS*QM GRTSPDNPQ\RFDRATCVSRPT LGITGGRHTWVVSIDLAHGGSC TVGVVSEDVQKGELKLRPEE GVWAVRLAWGFVSALGSFPITR LTLKEQPRQVRVSLDYEVGWV TFTNAVTREPIYTFTASFTRKVI PFFGLWGRGSSYSILSSLRRSSY LLSSKYRTHINPSTMWT
21060	51428 51429	A	21187	217 529	397 1526	YCGRVGELAAGELVFLWSRVG PQNPRSSRLPPPILAMFLIRSEY DRGVNTFSVPEGRLFQVEYDIEA IKLGSHSQLAPRHREGVALAV EKRIYLPHLMGAQAGI*GKLLG LMLHIGLIDEPWGLICLMLK FNSIKSRVGRHR/YPWGSPYNG GH*QWESTEPKLCPNLGFSSFG EEDAESRYPMSRPLGSSHLFIW EELYEKGTPSLFP*GTFFWGPFV PVWMARSQFGSGFQRGAPRAP LPRKFPPTSPMTFERSPSSPSPHP SLKQVMGGRKLNANQTIEPRT SLKQVMGGRKLNANQTIERPT VPALAENFPHCSORKKLEEVIQ GH*KESWILRTSLGTISVLNNVP
21062	51430	A	21189	211	382	TSVSPSVPPLPC*RHPGEPQTGN NASNGTSSSRDESRPPVRVVPPP QTAVAITLSTA
21063	51431	A	21190	3	96	FFFPPQKYD*DR*EHPRFHKTLR NWRVGAQ
21064	51432	A	21191	1	1320	
21065	51433	A	21192	I	339	

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21066	51434	Α	21193	289	3694	MAFVPVIPESYSHVLAEFESLDP
						LLSALRLDSSRLKCTSIAVSRK
					\	WLALGSSGGGLHLIOKEGWKH
						RLFLSHREGAISOVACCLHDDD
		1	l			YVAVATSQGLVVVWELNQERR
						GKPEOMYVSSEHKGRRVTALC
	Į.					WDTAILRVFVGDHAGKVSAIK
l		ļ.				LNTSKOAKAAAAFVMFPVOTIT
		ŀ		1		TVDSCVVOLDYLDGRLLISSLT
i	i	l		1		RSFLCDTEREKFWKIGNKERDG
						EYGACFFPGRCSGGOOPLIYCA
		l				RPGSRMWEVNFDGEVI
21067	51435	A	21194	2	128	
21068	51436	Α	21195	1041	2238	LLHPAORSLSKDGTKESLEDAA
		1				LMGEEGKPEINQQLSLESMELD
ł	-					ELALEKYPIAAPLVPYPEKSSED
		ŀ				GVGNPEAKILSGTPTYKRRVISL
						LVTIENHTPLVELSEYLGTNTLS
	i	l	İ			EILDSPWEGAKNVYKCPECDQ
				ĺ		NFSDHSYLVLHQKIHSGEKKHK
						CGDCGKIFNHRANLRTHRRIHT
						GEKPYKCAKCSASFRQHSHLSR
		ľ				HMNSHVKEKPYTCSICGRGFM
		l				WLPGLAQHQKSHSAENTYEST
		l				NCDKHFNEKPNLALPEETFVSG
	1	1				PQYQHTKCMKSFRQSLYPALSE
		1				KSHDEDSERCSG\CGDNFFSFSK
					1	FKPLQCPDCDMTFPCFSELISHQ
						NIHTEERPH*\CKTCEESFALDSE
				1	1	LACHQKSHMLAEPF\KCTVCGK
						TFKSNLHLITHKRTHIKKHHVK
21069	51437	С	21196	156	389	

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first		*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21070	51438	A	21197	1	2466	MLSRLFRMHGLFVASHPWEVI
					•	VGTVTLTICMMSMNMFTGIAG
	i i					LFTIFSSFVFSTVVIHFLDKELTG
		l			ļ.	LNEALPFFLLLIDLSRASTLAKF
		1				ALSSNSQDEVRENIARGMAILG
1		1				PTFTLDALVECLVIGVGTMSGV
		1			ŀ	ROLEIMCCFGCMSVLANYFVF
	i	1			1	MTFFPACVSLVLELSRESREGR
		ŀ				PIWOLSHFARVLEEEENKPNPV
	1	1				TORVKMIMSLGLVLVHAHSRW
		1				IADPSPONSTADTSKVSLGLDE
						NVSKRIEPSVSLWOFYLSKMIS
İ		1		İ		MDIEOVITLSLALLLAVKYIFFE
		1			i	QTETESTLSLKNPITSPVVTQKK
1		1				VPDNCCRREPMLVRNNQKCDS
		1				VEEETGINRERKVEVIKPLVAET
		1				DTPNRATFVVGNSSLLDTSSVL
l		1				VTQEPEIELPREPRPNEECLQIL
į .		1				GNAEKGAKFLSDAEIIQLVNAK
						HIPAYKLETLMETHERGVSIRR
		1				QLLSKKLSEPSS\LQYLPYRGY\
		1				NYSLW*WGACCENVIGYMPIP
				1	1	VGVAGPLCLDEKEFQVPMATT
						EGCLVASTNRGCRAIGLGGGAS
l .						SRVLADGMTRGPVVRLPRACD
						SAEVKAWLETSEGFAVIKEAFD
		1				STSRFARLQKLHTSIAGRNLYIR
1		1				FQSRSGDAMGMNMISKGTEKA
1		1				LSKLHEYFP*NCRF*AV\SGNYC
		1				TDKKPAAINWIEGRGKSVVCET
		1			i	VIPAKVVREVLKTTTEAMIEVN
						INKNLVGSAMAGSIGGYNAHA
21071	51439	Α	21198	236	3022	GEGSFRSATALTGARLSVGAGV
						RWPLVRSGGSKDSVATMLSRL
Ì		1				F\RMHGLFVASHPWEVILGTVT
						LTICMMSMNMFTGNNKICGWN
						YECPKFEEDVLSSDIIILTITRCIA
1						ILYIYFQFQNLRQLGSKYILGIA
1						GLFTIFSSFVFSTVVIHFLDKELT
1		1				GLNEALPFFLLLIDLS\RASTLA
						KFALSSNSQDEVRENIARGMAI
1		1				LGPTFTLDALVECLVIGVGTMS
l		1				GVRQLEIMCCFGCMSVLANYF
L	1	1				VFMTFFPAC
21072	51440	Α	21199	1	450	CKSRGSNLRVHFKNTRETAQAI
1	1	1				KGMHIRTATKYLKDVTLQKQC
		1				VPFRRYNGGVGRCAQAKQWG
1						WTQGRWPKKSAEF\LVIEHIQV
1		1	l			NKAPKMRRRTYRAHGRINPYM
		1	l			SSPCHIEMILTEKEQIVPKPEEEV
L		L		L		AQKKKISQKKLKKQKLMARE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nuclcotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21073	51441	A	21200	1	876	
21074	51442	Ā	21201	i	1725	
21075	51443	A	21202	278	889	SVKMVRYSLDPGGTPRKSCK/S
2.075	314.3		2.202	[270	007	QRGSNLRVPFKDHS*KLPQAH
		i				RVCHIRKSPTKY\LKDVHLTRN
						QCVPIPDRYNG*QLGQVCRRHI
						QMGPGTTKGR\WPQKGVLKFL
		i				PAHALKTAE\SNAEL\KGLDVD
						LVIEHI\QVNKAP\KM\RRRTYR
						AHGRINPYMSSPCH\IEM\ILTER
		1				EQIVPKPEEEVAQKKKISPEETI
						RNKNLLARE
21076	51444	Α	21203	I	1923	
21077	51445	Α	21204	l	280	
21078	51446	Α	21205	I	109	
21079	51447	Α	21206	i	638	
21080	51448	Α	21207	1	396	
21081	51449	Α	21208	26	969	HGVGCRDGLPMECRFLCQIFM
						AFMQMNSYCARHKKATRRTV
						/CRNQDMTESSQKWTGKGSAV
						EHLVESGEWTMHPARPVSACR
						CPSDCHVPLSPGACWPKLECLS
						EGSSYISDGKEYLFYLNVCGET
	1		İ		•	EIQFCNKKQAAVCQVKKSDTS
						QVKAAGRYHNQTLRPSESSWS
						LLFVVLVFFPGVHSPFSLDEAL LCPONCLPPGTVSAPLNCVYPL
					·	
			1			ALSAAVALAAGSELMECHRLV
						NSLEVSTAAQGQSSKTQFYACI CRLSTHLWKYSEESGRRLVCSI
						YQPSELNPALNLSFLVGTRLQE
				l		GAALLFIQSGFTIV
21082	51450	A	21209	1	465	CALIBER AGGETTA
21083	51451	A	21210	217	453	
21084	51452	Ā	21211	1	840	
21085	51453	Ā	21212	1	663	
21086	51454	A	21213	176	957	DEPIGVPLLSAPPAGTTKIKADO
						LHLQGAAPKICPCLQDGSLGQF
	ì	1				YCPFVSFSRYYINLCQKIYKGPI
		l				GCSERASICRRTTTGDVQVLG\1
			}			VHTQK\LGVIGPRVVVTTSKRY
			Ì			PCGGNKTASSVIELTCTKPVGR
		1			1	PAFKRFEIDSCTYYFSWDSGAA
						CAVKPQEVQMVNGTITNPINGI
						SFSLGDIYFKLFRASGDMRTNG
						DNYLYEIQLSSITSSRNPACSGA
						NICQVKPNDQHFSRKVGTSDK
	1	ı	1	l	1	KYYLQGNPWLPTKFHI

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence		Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21087	51455	A	21214	3	7616	SPVERSPRAPAPSPPPLPWRR DPVPGAAPSSRAPLASRPPRSSG PGAMGAAGRSPHLGPAPAR PQRSLLLLQLLLVAAPGSTQA QAAPFPELCSYTWEAVDTKNN VLYKINICGSVDIVQCGPSSAVC MHDLKTRTYHSVGDSVLRSAT RSLLEFNTTVSCDQQGTNHRVQ SSIAFLCGKTLGTPEFVTATECV HYFEWRTTAACKKDIPKANKE VPCYVFDEELRKHDLNPLIKLS GAYLVDDSDPDTS
21088	51456	A	21215	2	184	VNCQPLGMISLMKR\PPGFSPFR SSRIGEIKEETTSHLRSCEYKGR PPKAGAEPASEREVS
21089	51457	Α	21216	1	203	
21090	51458	A	21217	l	1107	
21091	51459	Α	21218	I	915	
21092	51460	A	21219	I	1932	
21093	51461	Α	21220	2	746	

2678

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
		1		sequence		
	1	Ļ			2157	LIGHT PROPERTY OF THE PROPERTY
21094	51462	A	21221	1	2157	MGFPLRPSPAHLSSGRQQFPAK
		l				EERLLLSLTQESQSEEIDCNDKD
1		l				LFKAVDAALKKYNSQNQSNNQ
ŀ		l				FVLYRITEATKTVGSDTFYSFK
		l				YEIKEGDCPVQSGKTWQDCEY
	ľ	l				KDAAKAATGECTATVGKRSST
	ĺ	l				KFSVATQTCQITPGGWFILWHC
		l	i			PGGKLTISDYPNSSRVLHCTQC
1		l				VQGLNRRTRRHKTCPPLQAAS
1		1				QIEERIGFEGRPGLESFRAPCLL
		1				ASPFPCLEKGAEGPVVTAQYDC
	1	l				LGCVHPISTQSPDLEPILRHGIQ
1		ļ	1			YFNNNTQHSSLFMLNEVKRAQ
						ROAAP/GREFSSMDTFEGYEGA
		l				EDMEKLAGPFPVG*QSRNLFLQ
1						IRFPGEERKHPGRKRRTR*GSN
		l				GDROHOEGACWGVHAG*LLR
						GRRLVSRRGRGARGPPPRRAAL
	1	1				PAVAPAPRLQSARIPERGDGDD
		1				GVRRWGHREAIGS*GOS/LS/CN
	1	1				GIIILIKEERLPCPFHCISLMKRPP
1		l			1	GFSPFRSSRIGEIKEETTVSPPHT
1	1					SMAPAQDEERDSGKEQGHTRR
					}	HDWGHEKORKHNLGHGHKHE
	1					RDOGHGHORGHGLGHGHEOO
	1	l			ŀ	HGLGHGHKFKLDDDLEHOGGH
	I				ŀ	VLDHGHKHKHGHGHGKHKNK
		l				GKKNGKHNGWKTEHLASSSED
	İ					STTPSAQTQEKTEGPTPIPSLAK
		1				PGVTVTFSDFQDSDLIATMMPPI
						SPAPIQSDDDWIPDIQIDPNGLSF
		1			l	NPISDFPDTTSPKCPGRPWKSVS
21005	21.162	١.	21222	207	404	
21095	51463	A	21222	207	424	HHINCVLLYLQSHLRS\CEYQG\
		l		1		RPPKAGAEPASE\REVSLTNWA
		İ			l	ESSTPRHIAPTTSASNLEMEGQE
1	l	I	l	l	l	ERWDRI

SEQ ID NO:	of peptide sequence	hod	SEQ ID NO: in USSN 09/540,217	location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21096	51464	A	21223		1487	IMKLITILFLCSRLLLSLTGESOS EEIDONDKDLFKAVDAALKKY NSQNQSNNQFVLYRITEATKTV GSDTFYSFKYEIKEGDCPVQSG KTWQDCEYKDAAKKY NSQNQSNNQFVLYRITEATKTV GSDTFYSFKYEIKEGDCPVQSG KTWQDCEYKDAAKATGECT ATVGKRSSTKFSVAATQTCQTIP AEGPVVATAQLRTCLGCVWHPI IQRQSPDLEPILRHGIQVFNNNT QHSSLFTLNSVKRAQRQVVAG LTSKIFTSIVQTNCSKENFLFLT PDCKSLWNGDTGECTDNAYIDI QLRIASFSQNWDLYPGKDVVQ PTFKICVGCPRDIFTNSPLEETL THTITKLNAENNAISYFKIDNVK KARVRVVAGKKYFIDFVARET TCSKIESNEELTESCETKKLGT.
21097	51465	С	21224	21	281	YKGRPPK\AGAEPASEREVS
21098	51466	A	21225	204	441	QISQVLIICNQK+VILTGNFLDT YF+TTFINKKIDELRLCA/CAVA HSYNTTLCKKPRWKDCLRPAV QDQPVQHSETLSL
21099	51467	А	21226	333	604	SSDRITKPPSAEFLPLQRTFLHSL QDTVIELLH*DLETPPLTVLQNH PSLPRPIPAPPTLCPQTRWPHLR GHQGILAASHILETALAAIF

SEO ID	SEO ID NO:	Mer	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
l l				sequence		
21100	51468	Α	21227	846	3269	GFMEVLRDPIKKNSSESKPAQS
				l		GF\$RGN\$PL\$CPE\$VEA\$PAVNE
			İ	l		KSVYSTHNYGTTQRHGCRGLP
1						YADHNYGAPPPPTPPASPPVQTI
						IPRSDLNGLPSPVEERCGDSPNS
						EGETVPTWCPCGLSQDGFLLNC
						DKCRGMSRGKVIRLHRRKQDN
				l		ISGGDSSATESWDEELSPSTVLY
				l		TATQHTPTSITLTVRRTKPKKR
		l		l	1	KKSPEKGRAAPKTKKIKAFREG
		l				SRKSLRMKNSPSEAQNLDENTT
		l		l		EGWENRIRL WTDQYEEAFTNQ
		l		Į.		YSADVQNALEQHLHSSKEFVG
		l		1		KPTILDTINKTELACNNTVIGSO
		1				MQLQLGRVTRVQKHRKILRAA
		l				RDLALDTLIIEYRGKVMLROOF
		l				EVNGHFFKK\PYP\FVLFLLQNL
		ı				NGVEMCVDARTFGNDARFIRR
		l				SCTPNAEVRHMIADGMIHLCIY
		l				AVSAITKDAEVTIAFDYEYSNC
		l				NYKVDCACHKGNRNCPIOKRN
		1				S*CYRTATPTTSSKPTHHWSRD
	İ	1				*T*KS\RRKELEMEQQNEASEEN
						NDQQSQEVPEKVTVSSDHEEV
						DNPEEKPEEEKEEVIDDOENLA
		l				HSRRTREDRKVEAIMHAFENLE
		1				KRKKRRDQPLEQSNSDVEITTT
1		l				TSETPVGEETKTEAPESEVSNSV
1		l				SNVTIPSTPQSVGVNTRRSSQA
		l				GDIAAEKLVPKPPPAKPSRPRPK
		l				SRISRYRTSSAORLKROKOANA
		l				QQAELSQAALEEGGSNSLVTPT
21101	51469	A	21228	2	197	CRPPSPRPVRAARPARPQASFSR
21101	31409	A	21228	2	197	
		l			1	EPPPRRMAP*SKRRRQSARGPV
21100	51.400	<u>ا</u> ـــ	0.1000		400	RPSRVWARIKAKPYSCCCQL
21102	51470	Α	21229	4	488	GSYDINRQDTFQKDRQRVGPSG
		l				ASQKTEGFLLRLLYSGLIIAHCS
		l				LEILGRNDPPASASKVAETTDS
		İ				GSLSLANT*PPTPR/VTSQTANA
		l			l	TSQAAPALPLGSVPGRRAADPR
		1			l	PLLAWAPAPPGPGTSRNTHPAP
		1		I	l	DGLDMLVPIGDGVLGGNCFRN
		L				QCKSVSTS
21103	51471	Α	21230	124	293	

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21104	51472	Α	21231	239	1393	IYPOISFOKKFVMFFFSEALCTA
	51112	1				RAEECDPIGLLNNPRTSRYSRL
						KPNSSLGGSESRKTOMGPLPPP
						PKSPDGARPVPGCIKEAGPARG
						RSRLAPNPGALRRG/VGLGR*S
						ARI*GLVSKAAAGQGEARRGE
						AT*ARGALGRTTAGSFNAGWL
1						TLDGARQQPGRQTPTRIPSCVA
		1				DNAAGPSRTTTPD/EALRPLRG
		1				GPACTAPASFDSRAPYSASSAPS
		1				EGRWPSRGFPPIS/PLYSQLPETR
		1			i	SHEWQAASKIQPRKASTSQ*SA
1	i					RMEAT*QQWAGPPAEP*SLWFP
						RLARRSVVHWRTPY/ISSSITSLP
ľ						PVAAGIPEDSGPGSTQSSSRPGN
		1	1			TSSSSRPPPPPPPPPPP/QPLPPPPA
		1				GLASPRPVRARRPARPQASFSR
1		1				EPPPRRMAP
21105	51473	Α	21232	107	234	
21106	51474	Α	21233	224	227	LPQPGPGRRRACLRQASPRQYS
		_				RLPGRPPPSG*SW
21107	51475	A	21234	67	607	QRSWAGPGAGPEAGTRPPARG
l						RRRQPGNVDPRRRAPQLRSQM
1		ļ				QVAMARATTATGNRLWPGLLI
1		1				MLGSVCHRGSPCGLSTHVEI\LL
		1				LEHQDAYQAGIVFPDCFYPSIC
		1				KGGKFHDVSESTHWTPFLNAS
1		ŧ	ļ		1	VHYIRENYPLPWEKDTEKLVAF
1		1	Ì			LFGITSHMAADVSWHSLGLEQ
	L					GFLRTMGAI
21108	51476	A	21235	54	193	amy covers v v v v v v v v v v v v v v v v v v v
21109	51477	A	21236	1275	1764	STKCQYFSHLLLLFSASESKQLL
		1	1			LYSAFFRYVPVKDLLGIYEKLYI
		1	1			CFISLLQTGL*RYQE*YHIHFIFS
						FSLP*LYPTYSTKSPFLVEQFQE
1			1			YFLGGLDDR*NSCL*RSR*MAN
						SFDCFLSDSVLQGVVFSVVTSL
	l	<u> </u>				FLFLFNSSKMQKNDFHRNLTTS
21110	51478	A	21237	297	428	QCQRGPGCSRGHGI*I*EHWTA
	1		i	1		FGLLDLRQWFARGSWASGHGP

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21111	51479	A	21238	3247	5958	QRSWAGPGAGPEAGTRPPARG
		ľ.			-,	RRROPGNVDPRRRAPOLRSOM
					}	OVAMARATTATGNRLWPGLL
	İ					MIVMASLCHRGSSCGLSTHIEIG
l						HRALEFLHLHNGHVNYKELLL
						EHODAYOAGTVFPDCFYPSLC
		ŀ				KGGKFHDVSESTHWTPFLNAS
		ŀ	l			VHYIRENYPLPWEKDTEKLVAF
		ŀ				LFGITSHMVADVSWHSLGIEQG
1						FLRTMGAIDFHGSYSEAHSAGD
1				l		FGGDVLSQFEFNFNYLARRWY
Į.		1				VPVKDLLGIYEKLYGREVITEN
l		l				VIVDCSHIQFLEMYGEMLAVSK
		l		i	1	LYPSYSTKSPFLVEQFQEYFLG
		l				GLDDMAFWSTNIYHLTSFMLE
		1				NGTSDCSLPENPLFIACGGQQN
		Ì				HTQGSKMQKNDFHRNLTSSLT
l		l			1	ENIDRNINYTERGVFFSVNSWT
1		l				PDSMSFIYKALERNVRTMFIGG
1		1				SQLSQKHVSMPLRHHYFLSFPY
						ARLGW\AMTSADL\NQDG\HGD
		l				LRGWGAPGLTAAPAHIPHSGR
l		1				VYLIYGNDLGLPPVDLDLDKEA
		1				HRILEGFQPSGRFGSALAVLDF
İ		l		-		N\LDGV\PDLAVGAP\$VGSEQLT
1		l				YKGAVYVYFGSKQGGMSSSPN
1		l			1	ITISCQDIYCNLGWTLLAADVN
		l				GDSEPDLVIGSPFAPGGGKQKG
		l			l	IVAAFYSGPSLSDKEKLNVEAA
		1				NWTVRGEEDFSWFGYSLHGVT
		ı				VDNRTLLLVGSPTWKNASRLG
						HLLHIRDEKKSLGRVYGYFPPN
21112	51480	Α	21239	2	403	VVAEEDTELRDLLVQTLENSGV
					İ	LNRIKAELRAGVFLALEEQEKV
	I					ENKTPLVNESLKKFLNTKD\LQ
						GLEGRENLARDLGIIEAEGTVG
					1	GPLLLEVIRRCQQKEKGPTTGE
						GALDLSDVHSPPKSPEGKTSAQ
21113	51481	A	21240	3	1699	

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21114	51482	A	21241	3	1812	IPPILLIMGI.HPNKPIVSQSRVVN DQCKLHAAVDSRDPPDGTKR RVSSGGTGLPGFGRGFGLPAGA WLSAEGRGAGGSGDCGPSGSS AEFTGRPBFSALPGAIPPILHLG LAPFELASEAVAEQAPPPAPTLS FGAQWSGAPQGSVSSVNPEGA GPARCASGRGFGCVGRVARAR SVPCCGRWPLARLRISWRSK MAATAAAVVAQEDTELRDLL VOTLENSGVLNRIKAELRAAV FLALEEQEKVENKTPLVNESLK KFLNTKDGRLVASLVAEFLQFF NLDFTLAWFQETSTIFFLLFT GGFLLLEVIRRCQQKEKGFTTG GGFLLLEVIRRCQGKEKGFTTG GGFLLLEVIRRCQGKKKTSGGK AGDKKANDEANOSDTSVSLSE FSKSSLHLLISHETKIGSFLSNR TLDGKDKAGLCPDEDDMEGDS FSKSSSLHLISHETKIGSFLSNR TLDGKDKAGLCPDEDDMEGDS FDDPIPFSKEFTYGLRKEPRKQ AGSLASLSDAPPLKSGLSSLAG APSLKDSESKRGNTVLKDLKLI SDKIGSLGGLGTGEDDDVYDDFN STSHRSEKSEISIGEIEEDLSVEI SDKIGSLGLGTGEDDDVYDDFN STSHRSEKSEISIGEIEEDLSVEI SDKITSSLGLGTGEDDDVYDDFN STSHRSEKSEISIGEIEEDLSVEI
21115	51483	A	21242	419	651	DVADYLEDVA TNIFSRLNPQTKNVFCARQLSS* SVTI*GVLGQAVTRYFSQALSC DWGTLLFSRAFLIMPESPTPLLG RDILAKAGA
21116	51484	A	21243	555	888	RTSSRRTPNPCSRIRKNYFKFH MEPKKSP/S*PRQC*AKRTKLEA SCYLTSNYTTRLQ*PKQHGWG TIRSFSSHEAIFQTITWGKTLDN TRLSRTEVPAAFHSALCPWFIET
21117	51485	Α	21244	728	1428	
21118	51486	A	21245	238	505	INVGRHHVILQGLSCPGQLSSRS VTI*G\VLGQAVTIYFSQPLSCD WRTLLFSHVFLIMPESPTPLLGR DILLYVCIGRFPIFRADCRT
21119	51487	Α	21246	940	1434	QLAPCTLTEPRVCLTIEGQEVN CFLDTRAAFIVLLSCPRQLSSRS VAIRGVLGQAVT*YFSQPLSCD WGTLRFSHAFLIMPKSPTPLLG RDILAKAGAIIHEKRKAFMRKR EIKKQARSSKVHTSAASSCART APLGESFAEHLIKIADFTPPSSSS PCTTLFFS

SEQ ID	SEQ ID NO:	Mct	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	scquence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21120	51488	В	21247	747	1138	
21121	51489	Α	21248	1685	2051	SSSRTEGARGKRQPMPSP/STEP
		ı				RVCLTIEGQEVNCLLDTGAAFS
		l				VLLSCPGQLSSRSVT1*GVLGQP
		l				VTRYFPQPLSCDWGTLLFSNAF
İ		1				LIMPESPTPLLGRGILAKAGAIIH
						HAVLVTAAL
21122	51490	Α	21249	2	1014	GGAGPVVLRRRAACSPGPAPR
		l			1	AARPPAMEPGPDGPAASGPAAI
		l				REGWFRETCSLWPGQALSLQV
		1	ŀ			EQLLHHRRSRYQDILVFRSKTY
		1		l		GNVLVLDGVIQCTERDEFSYQE
			1			MIANLPLCSHPNPRKVLIIGGGE
1						GG\VL\REVVKHPSVESVVQCEI
						DEDVIQVSKKFLPG\MAIGYSSF
					1	EADTYMWGDGF*VSWKQKQ\D
				1		AFDVI\IIDSSDPMGPA\ESLFKES
						YYQLMKTA/LLREDGVL\CCQG
						\ECQWLH\LDLIKE\MRQFC\QSL
						FPV/VLAYAYCTIPT/YTPSGQIG
						FMLCSKNPSTNF\QEPVQAVDN
		l				SSKVAKMQLK\Y\YNSERATAA
		l				AFVLPE\FARQGLE
21123	51491	Α	21250	3	418	FSYEKLLNWQEFAVDLEHHSY
						RSFLGLTCLKQISTRTEDFIIDTL
						ELRRDMYILNESLTDPAIVKP\L
		l				AEEMLSYARDDTHYLLYIYDK
		l				MKLQMRERGNRQTVQLHVVW
			ĺ			QRSRDICLKKFIKPI\FTDESYLE
						LYRKLKK
21124	51492	A	21251	1	1704	
21125	51493	Α	21252	1	3104	MFDTHQAARLLNLGRHSLDHL
	ŀ					LKLYCNVDSNKQYQLADWRIR
						PLPEEMLSYARDDTHYLLYIYD
						KMRLEMWERGNGQPVQLQVV
	ŀ		•			WQRSRDICLKKFIKPIFTDESYL
			1			ELYRKQKKHLNTQQLTAFQLL
						FAWRDKTARREDESYGYVLPN
						HMMLKIAEELPKEPQGIIACCN
		1	1			PVPPLVRQQINEMHLLIQQARE
						MPLLKSEVAAGVKKSGPLPSAE
				1		RENVKSQPVQVHL*QRPVLTA
						GRKLLPACTFYMPACWGL

SEQ ID NO:	SEQ ID NO: of peptide	Met hod	SEQ ID NO: in USSN	Nucleotide location of first	Nucleotide location of last codon for last amino acid	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21126	51494	Α	21253	2	2775	QALARRAVQAEKMAPPSTREP
						RVLSATSATKSDGEMVLPGFPD
						ADSFVKFALGSVVAVTKASGG
				l	ł	LPQFGDEYDFY\RSFPG\FQAFC
	İ			l		ETQGDR/LCFQCMSRVMQVPM
				l		GC\RSN\IKDRSKV\TELEDKF\D
				l		LL\VDAN\DVILERVGILLDEAS
						GVNKNQQPVLPAGLQVPKTVV
						\SSWNRKAAEYGKKAKSETFRL
						LHAKNIIRPQLKFREKIDNSNTP
						FLPKIFH\$NPMVQ\KPLPQAL\$K
						ERRERPQDRPE
21127	51495	A	21254	3	2668	QALARRAVQAEKMAPPSTREP
				l .		RVLSATSATKSDGEMVLPGFPD
						ADSFVKFALGSVVAVTKASGG
				1		LPQFGDEYDFYRSFPGFQAFCE
				İ		TQGDRLLQCMSRVMQYHGCRS
						NIKDRSKVTELEDKFDLLVDAN
						DVILERVGILLDEASGVNKNQQ
						PVLPAGLQVPKTVVSSWNRKA
	İ					AEYGKKAKSETFRLLHAKNIIR
						PQLKFREKIDNSNTPFLPKIFIKP
		ĺ				NAQKPLPQALSKERRERPQDRP
						EDLDVPPALADFIHQQRTQQVE
						QDMFAHPYQYELNHFTPADAV
						LQKPQPQLYRPIEETPCHFISSL
						DELVELNEKLLNCQEFAVDLEH
						HSYRSFLGLTCLMQISTRTEDFII
	1					DTLELRSDMYILNESLTDPAIVK
						VFHGADSDIEWLQKDFGLYVV
		1				NMFDTHQAARLLNLGRHSLDH
						LLKLYCNVDSNKQYQLADWRI
						RPLPEEMLSYARDDTHYLLYIY
				i		DKMRLEMWERGNGQPVQLQV
		l				VWQRSRDICLKKFIKPIFTDESY
		l	1			LELYRKQKKHLNTQQLTAFQL
		l				LFAWRDKTARREDESYGYVLP
		l				NHMMLKIAEELPKEPQGIIACC
						NPVPPLVRQQINEMHLLIQQAR
		l		l		EMPLLKSEVAAGVKKSGPLPSA
						ERLENVLFGPHDCSHAPPDGYP
	1	1	l	l		IIPTSGSVPVQKQASLFPDEKED
			l			NLLGTTCLIATAVITLFNEPSAE
L		L_	L			DSKKGPLTVAQKKAQNIMESFE
21128	51496	Α	21255	98	286	HARPRHGPRLRCEVGLRCAPG
1		l	l	l		YAGASARPTCECGDTRYCPQDP
	41.10=	<u> </u>				NQT*SRPVPIIAHRYCLTG
21129	51497	A B	21256	1020	1280	
21130	51498	l _R	21257	153	3804	

	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide		Amino acid sequence (X-Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
				sequence		
21131	51499	A	21258	159	579	PNVRWCPS\CYRNQDDHELQIT
						HGNKILCGIVWKKIAQVEQMR
		l				KFSRLEKQRTHVLSCSDLQAVR
l				1		RFRGVVSEGSFEMGEKVYKRK
		l			}	DMFQLSLLTEQHGDSTLGSGSS
						YTQMPAENGSLVHTLVTAAPPF
		ı				FAEKPHSITAG
21132	51500	A	21259	1	1290	MGASRSQKPGPSRDYSYTAGC
ŀ		1				DVDQRRRGAQKLSRSDTKRIV
		1				MSYGKKALKNDKFEIRAFSSSL
		l				EVRYRNQDDHELQIHTGTRFY
		l				VELCGFAVTRLRDPPMLRHAA
		l				MALLPWRPPDYSASLLPDWLP
		l				VPSSKVVITYPGFTSIWAFSNTE
		l				T/LCSEYKYYCEECRSKQE/AHK
		l			Į.	RRKV*KLPMILAP/HLKRFKYK
		l			i	DQLHRFTKLFTRASLRGPRDER
						LKRVSRQLFSLVVVTSRVFDVL
		1				LRILHRLGQYVSSEYYVALMCS
		l				EGHGPGAEDVTELLQSHEKTE
		l				WMRSCFFWMTKSGVFDGIYLW
		l				NAFNQEGEDLYKENCKTLMKE
		l				VEDAQINGKTSYAHGSEEYCK
		l				MSILPRILLQKISRDDCFKIVLKF
		İ				CVDHQKTKKCCMITLKSSVVQ
				İ		LAFTIKISVSEMCAREDFVVVIS
		1		l		FQHSEVPSRQLARCTFKEGYT
21133	51501	A	21260	3	142	
21134	51502	Α	21261	1	1368	

SEO ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequenec	1	
21135	51503	A	21262	1	2420	MEEVAEAPQPIDPKPLATQPQSI
		1				luttittutittttitittttitti
						HTTTITITTTITTTTTTTTTTTTTTTT
						TITITTUTUTETETITTTUTTTITTT
						VITHTTTTTTTTTTTTTTPSSSSSPSS
				į.		QADECWGEAEPLMSRQAHVW
		1				LRYRTGCREERPDQELTGSWG
					1	HGPRSTLVRAKAMAPPPPPLAA
						STPLLHGEFGSYPARGPRFALTL
						TSQALHIQRLRPKPEARPRGGL
					1	VPLAEVSGCCTLRSRSPSDSAA
						YFCIYTYPRGRRGARRKATRTF
	i					RADGAATYEENRAEAQRWAT
			ļ			ALTCLLRGLPLPGDGEITPDLLP
		1				RPPRLLLLVNPFGGRGLAWQW
			İ			CKNHVLPMISEAGLSFNLIQTER
						QNHARELVQGLSLSEWDGIVT
				İ	İ	VSGDGLLHEVLNGLLDRPDWE
				1		EAVKMPVGILPCGSGNALAGA
						VNQHGGFEPALGLDLLLNCSLL
						LCRGGGHPLDLLSVTLASGSRC
				1		FSFLSVAWGFVSDVDIQSERFR
1						ALGSARFTLGTVLGLATLHTYR
						GRLSYLPATVEPASPTPAHSLPR
						AKSELTLTPDPAPPMAHSPLHR
				1		SVSDLPLPLPQPALASPGSPEPL
1		ı				PILSLNGGGPELAGDWGGAGD
						APLSPDSTAGFTSWLSQGSSTLT
						RLRRGPRNSPILWAPTSHP*CPG
ı						RGLH\RGPPDHLLPPLGTPLPPD
		1				WVTLEGDFVLMLAISPSHLSAD
						LVAAPHARFDDGLVHLCCVRS
21136	51504	A	21263	573	1025	RKQSHEDEWRSTNKTVGHPSA
						RLYEPPWWAHTWTPPGGSKAP
		1				SDP/PLSHQLSPPAGQPHFASPEP
		ı				TSKTPDPWPGNVFSSFPLPQSLP
1		1				ELRHTLYLPMGTKKPPGSSMIF
i		1				YT*AQYPGTNSSATICRLLSYKS
		ĺ				GQVYPNTGQAPPQQRRGR
21137	51505	Α	21264	48	327	EELEALRR\QRLAELQAKHGDP
1	1	1		1		GDA\AQQEAKHREAEMRNSILA
1		1	1	1		QVLDQSARAR\VSEQGLIEILKK
		1	1	1		VSQQTEKTTTVKFNRRKVMDS
1						DEDDDY
21138	51506	A	21265	1	400	
21139	51507	A	21266	786	905	VSEOGLIEILKK*COLTEKTSTV
		1				KFNRRKVMDSDEDDDY

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21140	51508	A	21267	907	1327	PRLLQRSTPSPWRTEELEALRR; QRLADAAGQNTGDPGDAA\QQ EAKAPGQAEMRNSILAQVPGSS PAPARLSNLSHLVKP*KNLKP VIENYPYTRLARYWTT*VMTGI RNQGFN*KSI.KKVKAQ\QTEKT TTVKFNQKKK
21141	51509	В	21268	1	828	
21142	51510	A	21269	317	2390	IEWPKMNPQQORMAAIGTIOKE LSDLLDFSAMFSPPVNSGKTRP TTLGSSQFSGSGIDERGIGTTSW GTSGQPSPSYDSSRGFTDSPHY SDHLNDSRLGAHEGLSPTPFMN SNLMGKTSERGSFSLYSRDTGL PGCQSSLLRQDLGLGAPAQLSS SGKPGTA YYSFSATSSRRRPLH DSAALDPLQAKK VRK VPPGLPS SYVAPSPNSDDFNESSPSYSPS PPTSMFASTFFMQDGTHNSSDL WSSSNGMSQPGFGGILGTSTSH MSQQSSSYGMLHSHDRLSYPPHS SSPYDASHTPPNGSDSLIGTTK GNAAGSSGGDALGKALASIY SPPHTSSFPSNPSTFVGSPSPLT GTSQWFRPGGQAPSSPSYENSL HSLQSRMEDRLDRLDDHHYLR NHAVGPTSLPAGHSDHSLLGTK NHAVGPSTSLPAGHSDHSLLGTK SYPHAPHGSLSTSLNHKTQENY **RWPCK SQSGTVVPQEIKTEN KEKDENLHEPPSSTDLNHKTQENY **RWPCK SQSGTVVPQEIKTEN KEKDENLHEPPSSDMKSDD'* **SQKDIK VSSRGRTSSTNEDEDL NPEQILITERSTEDLSHKTQENY **RWPCK SQSGTVVPQEIKTEN KEKDENLHEPPSSDMKSDD'* **SQKDIK VSSRGRTSSTNEDEDL NPEQILITERSTEDLSHKTQENY **RWPCK SQSGTVVPQEIKTEN KEKDENLHEPPSSTDLSHKTQENY **RWPCK SQSGTVVPQEIKTEN KEKDENLHEPPSSDMKSDD'* **RWPCK SQSGTVVPQEIKTEN KEKDENLHEPPSSDMKSDD'* **RWPCK SQSGTVVPQEIKTEN KEKDENLHEPPSSDMKSDD'* **RWPCK SQSGTVVPQEIKTEN KEKDENLHEPPSSDMKSDD'* **RWPCK SQSGTVVPQEIKTEN KEKDENLHEPPSSDL** KEKDENLHEPPSSDMKSDD'* **RWPCK SQSGTVVPQEIKTEN KEKDENLHEPPSSDMKSDD'* **RWPCK SQSGTVVPQEIKTEN KEKDENLHEPPSSDMKSDD'* **RWPCK SQSGTVVPQEIKTEN KEKDENLHEPSSTENDEDEL NPEQILIEREKERMANNAREEL RYRDINEAFKELGRMCQLHLKS SQKDIK VSSRGRTSSTNEDEEL NPEQILIEREKERMANNAREEL SYRDINEAFKELGRMCQLHLKS SQKDIK VSSRGRTSSTNEDEEL SERGYTKLLILHQAVAVILISLEQ VXERNILNPKAACL KRREEEK **CANCHING***C
21143	51511	A	21270	2	153	QNASSPSKGSQLLTSKGTKLDG E*V**INRSRLQKVANNKLLWR KLKGQF

SEQ ID NO:	SEQ ID NO: of peptide		SEQ ID NO: in USSN	Nucleotide location of first	Nucleotide location of last codon for last amino acid	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
NO:	sequence	liou	09/540.217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21144	51512	A	21271	1	1230	MRKTQCKNAESSKNQNASFPP
						KDHNSLTAREQNWIENEFGELT
						EVGFRRLNQEEVEFLNRPITGSE
		l				IEAIINSLATKK\GPEGFIAEFY*R
			l			KTQCKNAESSKNQNASFPPKD
			ŀ			HNSLTAREQNWIENEFGELTEV
						GFRRLNQEEVEFLNRPITGSEIE
			1			AIINSLATKKRTRGIHSRILLEVI
						TSFYVERGGNAMSFMGKGVTK
			l			STILCLLHLSHEMMAQAGSLE
1				ł		WMSLWFLPLGSHSEEHIPTQQG
						LAWLIPLWVDRDPEVRFTSLGL
İ						GSALTTLETGCVALANSCQNIS
		1				GGLWGTVVNILLDQSECSMVR
		1				RESQHHVDVAKVYHLHPPEW
						WPKLYLGPLDHSRELRSSVLEC
1						MEQRLEVTLGTTPYFSVPISKFI
						QAVTTKCLRLGASRFSVCLAGL
1		ŀ				SAAPEQKIHPPPPTQQFQQLPHD SVGFLQFSLHPKGNFGSGISSPD
1		l				RSGDASHYSYPSLWQIRGTSRV
i		l l				KKQTWGSGNLKKWGIHKVQP
		i i				QRLMMQNDTDEESI
21145	51513	A	21272	1	987	QKEMINQNDTBEESI
21145	51514	A	21272	180	466	ARGSERAAASFSASMYEGKKT
21140	31314	ľ`	21273	1.00	1	KNMFLTRALEKILADKEVKKA
		l				HHSQLRKACR\VALEGNKAETE
		l				KOSPPHGEAKAGISTLPPVKSK
	1	1				TNFIEADKYF
21147	51515	Ä	21274	1	1224	
21148	51516	A	21275	251	5986	SCRCPPRLQSPTSTPSPFSLLFLP
		1				LLLLPSSRWEPRVGRAAASFSA
		1			ì	SMYEGKKTKNMFLTRALEKIL
		1				ADKEVKKAHHSQLRKS/CGRV
		1				ALEEIKAETEKQSPPHG\EAKAG
		1				SSTLPPVKSKTNFIEADKYFLPF
		ĺ				EL\ACQSKCP\RIV\STSLDCLQK
1						LNAYGAL*LGNAPDSTTPGKKL
		ĺ				IDRIIETICGCFQGPQTDEGVQL
						QIIKALLTAVTSQHIEIHEGTVL
			1			QAVRTCYNIYLASKNLINQTTA
						KATLTQ
21149	51517	Α	21276	46	214	KLRLTTTSVYAIPNRRRYDGFK
						LVQSCIF1*NFRS*DLRPPQYMPF
		İ				LIEGGMTVSNSCRAAFSFTSLC
						RHFRSEAWLQNTNTGGFGSTF
21150	51518	Α	21277	306	616	
21151	51519	В	21278	47	927	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \=possible nucleotide insertion)
				sequence		
21152	51520	Α	21279	660	890	GGKITASGSPVPRPSGA*ALPSG
		1				RCSTPRTSSCPRQLPEPPGL\PSP
		l				PSAPANTTPDDSHAAP*GTRAH
		l				THRPPPHT/PTAPSRPPTSPPVAT
						RTAPKAPQ/HHP/PTSCPTQRPT
						DSPSVHEPSQPLATQHSTQPI*P
		1				VIVTQ
21153	51521	Α	21280	3	213	
21154	51522	Α	21281	349	2616	TTAMAHRKLESVGSGMLDHRV
		ı				RPGPVPHSQEPESEDMELPLEG
		l				YVPEGLELAALRPESPAPEEQE
		l				CHNHSPDGDSSSDYVNNTSEEE
		1				DYDEGLPEEEEGITYYIRYCPED
		1			1	DSYLEGMDCNGEEYLAHSAHP
						VDTDECQEAVEEWTDSAGPHP
		1				HGHEAEGSQDYPDRQLPIPEDE
		1				PSVLEAHDQEEDGHYCASKEG
		1				YQDYYPEEANGNTGASPYRLR
		ı				RGDGDLEDQEEDIDQIVAEIKM
				1		SLSMTSITSASEASPEHGPEPGP
						EDSVEACPPIKASCSPSRHEARP
		ı				KSLNLLPEAKHPGDPQRGFKPK
		1				TRTPEERLKWPHEQVCNGLEQP
		1				RKQQRSDLNGPVDNNNIPKTK
		l				KVASFPSLVAVPGPCEPKNLID
ł						GIIFAANYLGST\QLLSERNPSK
		ı		1		NIRMMQAQEAVSRVKRMQKA
		l				AKIKKKANSEGDAQTLTEVDLF
						ISTQRIKVLNADTQETMMDHAL
l	1	l		1		RTISYIADIGNIVVLMARRRMPR
						SASQDCIETTPGAQEGKKQYK
		1		I	1	MICHVFESEDAQLIAQSIGQAFS
						VAYQEFLRANGINPEDLSQKEY
		1			1	SDIINTQEMYNDDLIHF\SNSEN
	1	1		1	1	CKELQLEKHKGEILGVVVVESG
						WGSILPTVILANMMNGGPAAR
	1					SG\KLSIGDQIMSINGTSLVGLPL
	1					ATCQGIIKGLK*PDHR*SFNIV\S
		1	l	1	1	CPPV/TPRFLYSKRPDLKYQLGF
1		1	l		1	SVQNGIICSLMRGGIAERGGVR

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21155	51523	Ā	21282	20	771	TTPNKQHMMQTRAGSAWYLR
21133	31323	^	21202	120	//.	SRGCSQGAPQKASSGSGGSSW
						NRSVATVPGIVLGWRRPELLSE
			l	Ì		RGCAEARGAGVAGRORLOLTG
				1		VQGKSVVRGRGLLGRREWCRR
		1				GGGAAPRPTPAGTPVPRRPGTR
		1	l			
l					1	AGPEEGEGAGAGARAAPEPRP
		1				HALSPPAAFGADGQLRPLLLTS
		l				LRAHHPGRGGLLLTSPGTHQPR
i		l				RGRQGTPPPASPSPA/PEEGALP
		l		ŀ		GVLPL*PPPSPPSP/SSESPRPHPG
		_				GGALAVTRRTAAA
21156	51524	Α	21283	1615	1985	LGSTRQAAPGQLRGHQAPAPN
		1				SDATAGQGRCRRSAD*GWGSR
		ŀ				EQI*ALPLPSGPAPLLPPLLPPLL
1		İ				PVPPSPPPSPPSPPSPLPPP\GPP*
						PPLTFSVVTPGGLWCPPHRKSL
		_				NPTSKGVNEY
21157	51525	Α	21284	3	501	
21158	51526	Α	21285	1	2646	
21159	51527	Α	21286	31	319	VIQDLHVPPREESAEQVDDPPE
		l			1	PVY\RT*RGSPGPLHRAPLQPPF
		1				PARCGRRTRTRAPGAPTTTTQT
		1		ł		RELPPGSRPLRLPRVPPAQPPPL
		_				PRWTAT
21160	51528	Α	21287	3	147	
21161	51529	Α	21288	20	600	PVTPRRTILPWALSVSPALPLP*
		l				PHPPAGLVMSARTSRCSTPTTS
		l				LRSSG*GWRTPTGSHTSTIQRTP
		l				LFDGSCPRSLSLPLEASINPARM
		1	1			VTPQPRPALQRRRSQQSWMRL
1		l				GAGRKSLLPQLL*GPRPWTRQG
		1	1			CSIAPRRQTRESGSGRSTGVPPG
1	1					LCWRVAS*HSSRTQRPRLQAA*
						GSLPSFPPLSTQWS

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*-Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21162	51530	A	21289	383	11800	TCSTQTSLRNPPRRPRAASLPQT
21102	0.1550	ļ.,	21207	100		CSRSPRPSRAHSLTGRPPRFQSQ
						MPSRSPCC*IC*NIRIDLCGS\TH
	1					SDGRFELVFSGKKLALRASSOD
	1					EAEDWLDRVREALOKVRPQOE
		1				DEWVNVQYPDQPEEPPEAPQG
						CLSPSDLLSEPAALQGTQFDWS
						SAQVPEPDAIKESLLYLYMDRT
						WMPYIFSLSLEALKCFRIKNNE
l						KMLSDSHGVETIRDILPDTSLG
				ļ		GPSFFKIITAKAVLKLOAGNAE
						EAALWRDLVRKVLASYLETAE
1	ŀ					EAVTLGGSLDENCOEEKNNTK
	ŀ					HTTARNAFEENDFMENTNMPE
	į					GTISENTNYNHPPEADSAGTAF
						NLRPTVKOTETKWEYNNVGTD
						LSPEPKSFNYPLLSSPGDQFEIQ
	ł					LTOOLOSLIPNNNVRKLIAHVIR
						TLKMDCSGTHVQVTCAKLISRT
1		1				GHLMKLLSGQQEVKASKIEWD
		1				TDQWKIENYINESTEAQSEQKE
	İ	1	i			KSLEAASGTQDGVHVQEPRPQ
	1	1				APSPLDLQQPVESTSSQQPSSTV
		1				SETAREVGQGNGLQKAQAHDG
	I	1				AGLKLVVSSPTSPQQVCKLWW
		1				SAGLHTPPPVTSLGTVGLQGPQ
1		1				ORFPKFPDFFHPLEISCGKVA
21163	51531	A	21290	2	667	QIATRI DITTI ELISCORVA
21164	51532	A	21291	84	377	RMGKHCFENLLFRDGKAORAC
1		ı				MGYTVCHSHIVGSGQKCWPA
						WPOVNLQPSRHQQVCCSLPRC
		1				AKCKTVFHQSCQAV\VKKGCPR
		1				CAR*RKYQQQNVFA
21165	51533	A	21292	2	1168	FVLPVVSGRETASSARRLRGCR
		1				SREPPSPRSSLRLVSCDSLREQL
		!				REWRCFOWWRMDWTPRLPSR
		1				HIISELEHLTFVNMDVGRCRAW
		1				LRLALNNGLMECYLKLLLQ\EQ
		1				ARLREYYOPTALLRDAEEGEFL
		1				LSFLOGLMSLSFELSYKSAILNE
		ı				WTLTPLALSGLCPLSELDPLSTS
		1				GAELQRKESLDSISHSSGSEDIE
		1				VHHSGHKIRRNQKPTASSLSLD
		1	l		1	TASSSOLSCSLNSDSCLLQENGS
	l	1	l			KSPDHCEEPMSYDSDLGTANA
	1	1	l		1	EDSDQSLQEVLLEFSKAQAASG
1	1	1	l		1	TQDGVHVQEPHPQAPSPLDLQ
1		1			1	QPVESTSGQQPSSTVSETAREV
		1	l		1	GQGNGLQKAQAHDGAGLKLV
		1				VSSPTSPNISSMIOSTRPVHFCIV
1		1			1	STKHCTWEKVGMDE
				L		CITATO I WELL TOWNED

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /~possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21166	51534	A	21293	263	813	
21167	51535	A	21294	130	1094	NOPHRTKGCPNSSTECKNGSLT
	01000	ľ.		1.50		CDFMOVPILEMGKLRPEGERRV
				1		ODRDSNPSLSPSAGLFOARWS*
				1	l	PPRPSFLLPAGKRRGCDGGGRG
						GGRVRAGGAPLRVHROGRAPP
				l	į.	QSTEHWWHVRRKPGGRPFYLP
				l		AQYVRELPALGNPAADAPPGPP
						IGTRSP*AARLRLPVRERGCGSG
		1				PORPPSGAPRRGOLPVRPCAAR
				l		RREP/RAAAWRPACPPACTCGP\
		l			1	GARAARAVPGRPDARRRLASR
1						ROPRKOROLOGLORSGLLGVP
1						AAPVAORLRERLRGHPGGTRP
1				1		
1						AAVGDREAGTTPGAEAGRLAE
21150		١.	0.1007		0.000	DSARREPGLEENHSAQRRA
21168	51536	A	21295	432	3676 3453	DLAGEVLLCGGAADYGTLGFS
21169	31337	I ^A	21296	432	3453	
		1			1	SPAVQEANRGALCSSIERGHIIS
1		1				ELEHLTFVNTDVGRCRAWLRL
						ALNDGLMECYLKLLLQEQARL
						HEYYQPTALLRDAEEGEFLLSF
1						LQGLTSLSFELSYKSAILNEWTL
1						TPLALSGLCPLSELDPLSTSGAE
				l		LQRKESLDSISHSSGSEDIEVHH
						SGHKIRRNQKLTASSLSLDTASS
1		ı				SQLSCSLNSDSCLLQENGSKSP
		1		l		DHCEEPMSCDSDLGTANAEDS
		_				DRSLQEVLLEFS
21170	51538	A	21297	64	2996	LCPPAQPAASQPQVELPAGWPQ
		l				PHALPLPHDHRAQHLLGCAHP
1		l		1		GRAKPELQQHHDCACAAQIPHI
		1				PVRQPYQHPDPPLCQPRRPACP
		1				ALPIHGRQLLLQEPLQAGTGGG
						PGCPPWPGQPHPPVTQVQQPHC
						GAPQPAFQPGVSAVVLRGRIVK
				l .		LAPEDLANLTALRVLDVGGNC
		1		i		RRCDHAPNPCMECPRHFPQLHP
			1			DTFSHLSRLEGLVLKDSSLSWL
		1				NASWFRGLGNLRVLDLSENFL
						YKCITKTKAFQGLTQL
21171	51539	A	21298	1	320	PVRTPPIPAFSPLKTLRIMSLHQF
		1		1		LLEPNCGRPQLCRGTMARKPAP
1	1	I		1		RKH*KHISRQCRVVLFEYKIGES
		I		1		VGFFKAVIFLFVFLRFHSILDQS
		1	1			FSLSSLLWKIVTLT
21172	51540	Α	21299	1	443	
21173	51541	Α	21300	1	1059	· ·
		_			·	

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence		Amino acid sequence (X-Unknown, *=Stop endon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21174	51542	A	21301	116	1559	PRTARPSCAHARTVRAVATRRE RVHFRDLSAAPSGLSVLRPRPT EPVRVDCPESANPPVRARPDSP DPRMFELLAASDARINGPFCAP VRLLAPLLGAFVTVSKIVSKIAL SPK*RRSHLERNGSQWVKV HELKEHNGHITGIDWAPKSD RICHICLGADRNCLMVWSQKID GVWKPPRG*FLRNLIGGGNFL* KWPPRRTIFECGGGGGRLLSV CYFESENDWWSKHIKKPIRST VLSLDWHPNINVLLAAGSCDFK CRVFSAYIKEVDEKPASTPWGS KMPFQQILMSEFGGISGTGGW VHGVSFSAASDDRLGWGSATD STUSVA*CLQKVVQVSTLKTE FLAAP*VVSFVSREPASGLPAH KLDIPKQSIGNRNSAHGNAFG NMDKRATTEDIRNTALETLH, QNSITQVLYLLRWDKQDICKEF CTITGIDGEPWTIWDFQDPRSL PSQGLRIM POGGLEMPTINGPOPPSL PSQGLRIM PROGLEMPTINGPOPPSL PSQGLRIM PROGLEMPTINGPOPPSL PSQGLRIM PROGLEMPTINGPOPPSL PSQGLRIM PROGLEMPTINGPOPPSL PSQGLRIM PSQ

SEQ ID	SEQ ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
21175	51543	A	21302	1	2223	MKHYTRVQSSISPPAERQETHA
21175	51343	ľ.	21302	1.	LLLS	WASPAVTSLESAACHELQEAD
						LSESLSYPRIVSSSSLQQYVAQG
		ļ				GSFPCFGMPWNFISGGAESTNA
			1			VISFANATTAVPMAVLSRRESS
						LANNPGVVNYSALPENENVGP
1		1			ŀ	EMPERPANSSKNSTETANYPTL
						MGNYNGQNTASLSVFIPPYFAE
						KIILTEMPGTTETNVENNSQTV
		1				YYPALSGNTSAPYPASSYLPITS
1		1	İ			NFVLERVAEMPETAGTNVKNN
		1				TOTVNYPPSSGRGRSOGNASLS
						LSIPPKFGIERHLGCFLVLAIRSK
						AAMN\IIYHIGFV*TOAFISLRY/
						MPKSAVAGSYGNALONVLHIE
		l				MLFKTESGPOMSYGTMSYSTE
						MKNNCDODDASASACLTPDFA
				1		LLPLNILVKVDTNTENSVNTMN
						RSTLLDSDSGQDSSSSSVCIPPK
1		1				YGYLGDPKRNVRVLKIHLLAV
		1				QNMAKPKQAACYLVRILFSKEI
				1		LISSSVDIHLKDSOSLDPNKMA
						ALREYLATTFPTCDLHEHGKD
						WODCISGINSMIYCLCSEGKSTP
1		l				KTVRKNKKRTNRVASASADRN
l		l				DORGRDGGEGCSWMFOPMNN
1		l				SKMREKRNLOPNSNAIPEGMRE
1			i			PSTDNPEEPGEAWSYFGRPWRN
1		1			i	IRMPCSVLTLAKTKSCASLSAR
1						YLIQKLFTKDVLVQSNVYGNL
		l				KHGLCALDPNKISALREFLOEN
		l				YPICDLSENGRDWKSCVTSINS
21176	51544	A	21303	1	297	
21177	51545	Α	21304	1	162	
21178	51546	Α	21305	I1	212	KGKNCVAIAADRRFGIQAQMV
		i				TTDFQKIFP/MGAQRLKFRLNL
		l				YELKEGRQIKPYTLMSMVANL
						LYEK
21179	51547	Α	21306	37	554	SSIKFGRSNPDYWIALPSRNLDP
	l					AIMSIMSYNGGAVMAMKGKN
1	l	1		l		CVAIAADRRFGIQAQMVTRDF*
1	1	1		l		KFFPMG*PACTPGMAGFAIDVQ
		1		1		TVAQRLKFRLNLYELKEGRQIK
1		1		I		PYTLMSMVANLLYEK/RDPDHL
						FETISQAMLNAVDRDAVSGMG
1		1	1			VIVHIIEKDKITTRTLKARMD

enee (X-Unknown, possible nucleotide ble nucleotide insertion) YNGGA VMAMIKG DRRFGIQ\ARLLTIN RLYIGLGGASPLD LKFRAEPVMS*RE LH*AMGGQPSLL*E EIPVHLPGLGPERP TTLIRVGPMGDLN APNKMYGWCESL JOHLF*KPFSOGHG
YNGGAVMAMKG DRRFGIQVARLLTTN DRLYIGLGGASPLD LKFRAEPVMS*RE H*AMGGQPSLL*E EEPVHLPGLGPERP CTLIRVGPMGDLN APNKMYGWCESL
ORRFGIQ\ARLLTTN ORLYIGLGGASPLD LKFRAEPVMS*RE LH*AMGGQPSLL*E TE\PVHLPGLGPERP KTLIRVGPMGDLN APNKMYG\MCESL
ORRFGIQ\ARLLTTN ORLYIGLGGASPLD LKFRAEPVMS*RE LH*AMGGQPSLL*E TE\PVHLPGLGPERP KTLIRVGPMGDLN APNKMYG\MCESL
ORRFGIQ\ARLLTTN ORLYIGLGGASPLD LKFRAEPVMS*RE LH*AMGGQPSLL*E TE\PVHLPGLGPERP KTLIRVGPMGDLN APNKMYG\MCESL
RLYIGLGGASPLD LKFRAEPVMS*RE LH*AMGGQPSLL*E E\PVHLPGLGPERP KTLIRVGPMGDLN .APNKMYG\MCESL
LKFRAEPVMS*RE .H*AMGGQPSLL*E TE\PVHLPGLGPERP KTLIRVGPMGDLN .APNKMYG\MCESL
LH*AMGGQPSLL*E TE\PVHLPGLGPERP KTLIRVGPMGDLN .APNKMYG\MCESL
E\PVHLPGLGPERP KTLIRVGPMGDLN APNKMYG\MCESL
KTLIRVGPMGDLN APNKMYG\MCESL
.APNKMYG\MCESL
DHLE*KPESOGHG
S/VSGMGSSLFHIIE
KARMD
SFPDALYFSSKSGA
ATRRSAI*FPSVKG
ATRRSAI*FPAVKG
SKDDRRFGCSGYS
*SQLPGCSATYQR
RREVSIPLLVPAPL
RTRTRPWRRP*AC
CGPTRSPWPSQQPIP
NIKTLGDAYEFAV
DIIVTTSNNHIEVRA
VMNTFAHKCQLPE
SALRKDGSLTIRAR
LRGGEVHREGTSA
GCRSAWNRCCTAC
MWPQG/PDVAMKT
YEFAVDVRDFSPE
HEVRA/REA/ERPD
HKCQLPEDVDPTS
SSLTIRA WRHPHTE
RVERDPRVRRGLR
PPGQGPAPSVDEPQ
KIPFLFLLLLLFTPP
RTRPWRRP*ACFP
TRSPWPSQPAPV/V
AYEFVVDVRDFSP
HIEVRPEKLAADG
QCQLPEDVDPTSV
LTIRARGHPHTEH

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
1				sequence		
21194	51562	A	21321	3	450	SSAAEVQEPRGAPGSPSIPSASR
1	Ì			1		PGPAPRPASLPPSQMQAAALPE
ŀ		1		l		EIRWLLEDAEEFLAEGLRNENL
ŀ						SAVARDHRDHILRGFQQIKA\G
	İ .					GDIGQDSSDDNHSGTLGLSLTY
						DAPFLSDYQDEGMEDIVKGAQ
		1		1		ELDNVIKQGYLEKKS*DH
21195	51563	A	21322	1	399	IGQDSSDDNHSGTLGLSLTSDA
						PFLSDYQD/EG*VHQISDHWEK
	l					LRTWC*VYCDKGMEDIVKGAQ
						ELDNVIKQGYLEKKSKDHSFFG
	1	ĺ				SEWQKRWCVVSRGLFYYYANE
						KSKQPKGTFLIKGYSVRMAPHL
ŀ	1					RRDS
21196	51564	A	21323	3	1189	RLPARPPPDQGPRPVPPLSRPAK
	1					CRLAVLPEEIRWLLEDAEEFLA
				ł		EGLRNENLSAVARDHRDHILRG
ŀ						FQQIKARYYWDFQPQGGDIGQ
	ĺ			ŀ		DSSDDNHSGTLGLSLTSDAPFL
	İ					SDYHDEGMEDIV*GAQELDNVI
						KQGYLEKKSKDHSFFGSEWQK
				l		RWCVVSRGLFYYYANEKSKQP
1				l		KGTFLIKGYGVRMAPHLRRDS
1	1			!		KKESCFELTSQDRRSYEFTATSP
				l		AEARDWVDQISFLLKDLSSLTIP
l				l		YEEDEEEEKEETYDDIDGFDS
ł				l		PSCGSQCRPTILPGSVGIKEPTEE
	ł			l		KEEEDIYEVLPDEEHDLEEDES
	}					GTRRKGVDYASYYQG\LWDC\
	1			l		YGDQPDDLSL\QRGDLILFLSKE
1	1	1		I		YNMYGWWVGELNSLVG\IVPK
						EYLHHLPLKWKERWKPREIYFF
21197	51565	Α	21324	47	225	NSHHVRGRPRCADSSSPSGDRG
	1			l		QPEAQPAPDSSAPEHAQEPGRA
	1		l	l		AVKRPDL*SHMTRRP

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
21198	51566	Α	21325	66	725	AILIILLSSEGLWSSDQHRLVGV
						ODSPPOGSLGCYFSAMATSEOS
						VCOARASVMVYDDTSKKWVPI
		1				KPG\QQGFSRINIYHNTVSNTFR
						VVGVKLQDQQ\VVINYSIVKGL
		1				KYNOATPTFHOWRDAROVYG\
						LNFASKEEATTFSNAMLFALNI
						MNSQEGGPSSQRQVQNGPSPD
						EMDIORROVMEQHOOOROEFL.
						ERRTSATGPILPPGHPSSAASAP
		ł				VSCSGPPPPPPPPPVPPPTGA\TP
		ł				PPPPPL\PAGGAQGSSHDESFHV
İ	1	ĺ				ODWPLAISWGPSLRRVPNGPED
						ASGGSSPSGTSKSDANRASSGG
						GGGGLMEEMNKLLAKRRKAA
						SQSDKPAEKKEDESQMEDPSTS
						PSPGTRAASQPPNSSK\AGRKP
						WERSNSRGYFCVLDSVQNPAL
						WPKSPES*EPPSVSSL/ISRMKPA
						GS\VSDMA\LDAFDLD\RMKQEI
						LEEVVRELHKGERKEIID\AIRQ
		l				EA*SGISRKKNLGHRAHPPTRTS
						FICSQRPRLM
21199	51567	Α	21326	301	390	
21200	51568	Α	21327	72	415	
21201	51569	A	21328	395	697	RVMSPVHVNTICSPHPHSDGDV
		ŀ				IVPIVLSNERYHWP\VLGWVGG
						VDCDEFFRVVLGEARLH\LDGV
	ŀ	ľ				AHQH*TKEGTISNLFQ\ATSVSH
						LVEVVPQKLSWVI
21202	51570	A	21329	36	399	VEILTSKRAGDWFKEELRLLGG
						LDHIVDKVKECVDHLSRDEDEE
						KLVASLWGAQRCLRVLQSVTV
	ŀ					HNPENQSYLIAYKDSQLIVSSA
		i	1			KALQHCEELI*QYNRAVDTLCL
						ADCKPLPHPTVL
21203	51571	Α	21330	1	177	
21204	51572	С	21331	198	350	
21205	51573	Α	21332	113	228	
21206	51574	Α	21333	1	466	

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleatide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hed	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
1 -	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
		_		L		
21207	51575	Α	21334	1	4133	ASGCWRKEVGAGSANGVEMV
						QGPVQTPALTIHRRKRRRRRR
l						RPSGGTQQALLPAPAVAASES*
			ļ			ARARPAALEAGREVAGPP\SCPF
1						NRASYLPKAESLASLGSHLPAL
		ŀ				LSRARVPRPPAGRKERE\RRKRF
						\VAKAPARL\RGEYETG\VKMTS
			l			RFAKTYSRKGGNGSSKFDEVFS
						NKRTTLSTKWGETTFMAKLGQ
						KRPNFKPDIQEIPKKPKVEEEST
						GDPFGFDSDDESLPVSSKNLAQ
				i		VKCSSYSESSEA
21208	51576	A	21335	3	221	
21209	51577	A	21336	1	580	
21210	51578	A	21337	2	1095	ARGNRPPPPPRTERGVLESRTRS
						RHRAPRLPPAMPAPRAPRALAA
		1	İ			AA\PASGKAKLTHPGKAILAGG
		l	İ			LRGG\QICMTFPTEYVKTQLQL
		1				DERSHPPRYRGIGDFVROTVRS
i i						HGV\LGLYRGLSSLLYGSIPKAA
						V\RFGMFE\FLSNHMRDA\QGRL
						DSTRGLLC\SLGAGRGPRP*VV
		1				VCPMETIKVKFIHDQTSPNPKY
						RGFFHGVREIVREQGL\KGTYQ
		1				GLTAT\VLKOGSNOA\IRF\FVM
						TSLRQW\YPRGTTPNKAHEPF*I
						TWGSFGA\IASASQVSFGNTPLD
1						VI\KTRMPGPWRPHK\YR\NTWE
						CGLQILKKGGGSRAF\YKGTV
						PPLGPGLAWDVAI\VFV\IYDEV
						G*SCFNKVWKNGIKA
21211	51579	A	21338	3	375	TAGDSGAEDGPASRVSQMPTLF
21211	313/9	^	21330	ľ	373	PPMPWNLPAGVDCTTSGVLAL
						TALFFKMEEANLASRAKAQELI
						QATNQILSHRKPPSSLGMTPAP
				1		VPTSLGLPPGPSSYLLSGSPPLG
						GC\GSTPPTPPGLAA
21212	51580	A	21339	51	3789	GRGHPHGGGELLPASPRGSPEG
1212	21360	^	21339	31	2707	DOPGOGDPEEKEGRVVPRGGA
				1		PDVPSAHALVPEPQTVLGLHQR
						VTAQPGRHGAH*LHGDRLHSG
	l					RPQRPTHTGWAPCLPYPTLGSG
	l			1		*RRHHGNPAGTPRSLLFPF\PEK
	l					ELEAPPPAPRFDIYDPFHPTDEA
	l					YSPPPAPEQKYDPFEPTGSNPSS
	l					SAGTPSPEEEEEEEEEEED
	l					EEEEEGLSQSISRISETLAGIYDD
	l					NSLSQDFPGDESPRPDAQPTQP
						TPAPGTPPQ
21213	51581	Α	21340	286	393	
21214	51582	Α	21341	64	610	L

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hed	in USSN	location of first	eodon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21215	51583	Α	21342	1	4433	MWAQLLLGMLALSPAIAEELP
						NYLVTLPARLNFPSVQKVCLDL
		İ				SPGYSDVKFTVTLETKDKTQKL
		1				LEYSGLKKRHLHCISFLVPPPAG
		1		l		GTEEVATIRVSGVGNNISFEEK
						KKVLIQRQGNGTFVQTDKPLYT
		1				PGQQVYFRIVTMDSNFVPVND
		ł				KYSMVELQDPNSNRIAQWLEV
	ł			i		VPEQGIVDLSFQLAPEAMLGTY
				l		TVAVAEGKTFGTFSVEEYVLSP
				i		FLLLLSSVLPKFKVEVVEPKELS
						TVQESFLVKGGL*\
21216	51584	Α	21343	3	522	ELRTWIEGLTGLSVGPDFQKGL
1	ĺ					KDGTILCTLMNKLQPGSVPKIN
						RSMQNWHQLENLSNFIKAMVS
		1		1		YGMNPVDLFEANDLFESGNMT
						QVQVSLLALAGKMGTNKCASQ
1						SGMTAYGTRRHLYDPKNHILPP
				!		MDHSTI\SLQMGTNKCASQVG
						MTAPGTRRHIYDTKLGTD\KCD
21217	51585	Α	21344	1	1230	MHQEDLRAWYLDLGLPSHQNE
						TTDVSVVYERFSLTDATYPKQA
						KQWDFPFLRVSTAQPTAWKCQ
		l				RAPSPYTHQDTALIPSPTARWL
1		l				SPEKEPKQGEVGEKSLLPDPTLP
1						LTDPRLTGSTEQKKDLAAGPVG
l		l				SALRRRPPAVSSTQFNKGPSYR
1					1	LLADVQNRLLPKYDSQKEAEL
l						RSWIKGFTGLSIRPDFQKGLKD
1						GIILCTLVNKLQPGSVPKIN\ASV
						*NWH*LENLSNFLKAMVSYGM
						NPVDLFEANDLFESGNNMQVR
ļ						VSLLALAGKAKTKGLRSGVDIR
		l				DKYSKKQNFDDTTMKASQCVI
		l		I		RLQITNKCASQSGMTAYGTRR
1		l				HLYDPKNRILPPMDNSTISLQM
		l		1		GTNKYASQVGMTAPGTQRHIY
	1	l		1		DTNLGIDKCENSSMSLKMGYT
		<u> </u>				QVANHSGQVFGLGRQIYEPKY
21218	51586	Α	21345	2	389	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino seid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
		ŀ		sequence		
21219	51587	A	21346	1	1113	MHOEDLRAWYLDLGLPSHON
21219	31387	l ^A	21346	l'	1113	
						AQPTAWKCQRAPSPYTHQDMA
						LIPSPTARWLSPEKEPKQGEVG
1		1				EKSLLPDPTLPLTDPRLTGSTEQ
		ŀ				AHAEGLAALMSALRVSHLQGR
						GGVVTLVDSQLGVIAVSSTQFN
		ŀ				KGPSYRLLADVQNRLLPKYDS
1		Ì				QKEAELRSWIKGFTGLSIRPDFQ
						KGLKDGIILCTLVNKLQPGSVP
		l				KIN\ASV*NWH*LENLSNFLKA
1						MVSYGM/NPVDLFEANNLFESG
	1					NNMQVRVSLLALAGKAKTKGL
1						RSGVDIRDKYSEKQNFDDTTM
						KASQCVIRLQITNKCASQSGMT
						AYGTRRHLYDPKNRILPPMDNS
						TISLQMGTNKCASQVGMTAPG
						TORHIYDTKLGIDKCENSSMSL
21220	51588	Ā	21347	353	1260	SCWCLKLALAVSST/QFNKGPS
21220	31300	^	21347	333	1200	YRLLADVQNRLLFKYDSQKEA
	ŀ		ŀ			ELRSWIKGFTGLSIRPDFQKGLK
İ						DGIILCTLVNKLQPGSVPKIN\AS
					i	V*NWHQLENLSNILKAMVSYG
						M/NPVDLFEANDLFESGNNMQ
	1				ŀ	
1						VRVSLLALAGKAKTKGLQSGV
						DIRDKYSEKQNFNDTTMKARL
ł	ŀ					CVIRLQITNKCASQSGMTAYVT
						RRHLYDPKNRILPPMDNSTISLR
	l					MGTNKCASQVGMTAPGNQWH
1	ŀ					IYDTKLGIDKCENSSMSLKMGY
	ŀ					TQVANHSRQVFGLGRQIYEPKY
						QPGGPVAHGAPSAGNCPGPGE
2122I	51589	Α	21348	3	530	
21222	51590	Α	21349	I	853	MPESWLAAFPPYGDIKKVVGL
				l		QLKEGLHQNLTMQDSIQIFDFQ
				l		LPGLLRPSSVLWTLKPYHTAGL
	ŀ					ASDRDSYKGILACMPCMFGSRR
						SPLRDIKSHQADLELEVKNSLD
	l	1		l		TIHRLESELKKQSKIQSQMKVE
1	l	1	1			KAHLEEEIAELKKSQAQDKAKL
1	l	l		l		LEMQESIKDLSAIRADLANKLA
						EEERAKKTSA*GAFGP/LIAQAN
	1					SRDEGTATIITQLELERDVHQRE
1	1			l		LKDLTSSLQSVKTKHEQNIQEL
						MKHFKKEKSEAENHIRTLKVPL
1	1	1		l		LNYPDDTEGIFLVAHEVNKA
	L		L	L	L	LNIFDDIEGIFLVAHEVNKA

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21223	51591	Α	21350	1	652	NTSLINTKKKLETDISQIQGEME
ŀ		l				DIIQEARNAEEKAKKAITDAAM
l		1	ŀ			MAEELKKEODTSAHLERMKKN
		l	ļ			LEOTVKDLOHRLDEAEOLALK
l		1				GGKKOIOKLEARVRELEGEVES
		1				EOKRNVEAVKGLRKHERKVKE
		1				LTYQTEEDRKNILRL\QDL\VDK
l						LOAKVKSYKROAEEAEEOSNV
		l	9			NLSKFRRIOHELEEADF\RADIA
		1			i	ESQVNKLRVKSREVHTKIISEE
21224	51592	Ā	21351	21	5868	PAAMSSDSEMAIFGEAAPFLRK
						SERERIEAQNKPFDAKTSVFVV
		1				DPKESFVKATVOSREGGKVTA
		1				KTEAGATVTVKDDOVFPMNPP
		1				KYDKIEDMAMMTHLHEPAVLY
		l	i			NLKERYAAWMIYTYSGLFCVT
		l				VNPYKWLPVYNAEVVTAYRG
		1	İ			KKROEAPPHIFSISDNAYOFML
		l		İ		TDRENOSILITGESGAGKTVNT
		l				KRVIQYFATIAVTGEKKKEEPA
		l				SGKMOGTLEDOHSANPLLEAF
						GNAKTVRNDNSSRFGKFIR
21225	51593	Α	21352	54	399	
21226	51594	Α	21353	441	1585	VPPMGGGPPFVGPVGFGPGDRS
		ł				HLDSPEAREAMFLRRAAVAPQ
		l				RAPILRPAFVPHVLQRADSALSS
		l				AAAGPRPMALRPPHQALVGPP
		1				LPGPPGPPMMLPPMARAPGPPL
		1				GSMAALRPPLEEPAAPRELGLG
						LGLGLKEKEEAVVAAAAGLEE
		l				ASAAVAVGAGGAPAGLAVIGP\
						SLPLALAMPLPEPEPLPLPLEVV
						RGLLPP\LRITELLSLRPRPRPPR\
						PEPPPGLMALEVPEPLGEDKKK
						GKPGEIEHRCIATA/AQGASWE
		1	1			DPPTCWKWDAE*LSRVFCGDL
			1			G\NEVND*HLGHAASARFPIPSL
		1				KAKVIR*QSAQARPKGYG\FVS
						FKDP\SDYVRP\MREMNGKYVV
			1			LAPPIKLRKSMWKDRNLDVFR
l	1	ı	1			KKQKEKKKLGLR

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /-possible nucleotide
	sequence	l	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21227	51595	Α	21354	l I	1122	MPGGKIGFLIEKGATEQSSTGN
						DFDELREEGGRRSNYSELQEDI
ļ						QTKGKEVENFEKNLEECVTTIS
		l				NTEKCVKELMELKTKARELRE
						ECRSFRSQCNQLEERVPAMKDE
1						MNEMKREGKFREKRIKRNEQS
			i			LQEIWDYVKRPNLPLIGVPESD
						RENGTKLENTLRDIIQENFPSLT
				l		RRGQPFRIMENTENAPKDNLLE
	ŀ					KEQLPRHNNCLELTQEEPA WD
						LQFDLLDLNDISSALKHHEEKN
						LISLLPQRGADYLSFRSHFQKNF
						VCVENCSLQERTVTGTVKVKN
						VSFEKKVQIRITFDSWKNYTDV
						DCVYMKNVYGGTDSDTFSFAI
	1					GLPPVIPTEQKIEFCISYHANG\Q
						IF\WDNK*WGRKYKNCVIVQW
21228	51596	Α	21355	71	1124	GPPPLCLMSCTRMIQVLDPRPL
						TSSVMPVDVAMRLCLAHSPPV
						KSFLGPYDEFQRRHFVNKLKPL
	}	1				KSCLNIKHKAKSQNDWKCSHN
	ľ					QAKKRVV\FADSKGLSLTAIHV
		l				FSDLPEQPAWDLQFDLLDLNDI
		l				SS\ALKHH\EEKNLILDFP\QPST
				ĺ		DYL\SFRSHFQK\NFVCL\ENCSL
						Q\ERTVTGTV\KVKNVEF*GRKF
		ĺ				QIRYHFSDSWEKLTLDVDCVY
		1				MENVY/GVGTGSDTFSFAIDLPP
						VIPTEQKIEFCISYHANGQVFW
		1				DNNDGQ\NYWIVHVQWKPDG
	i					VQTQMAPQ\DCAFHQTSPKTEL
						ESTIFGSPRLASGLFPEWQSWG
1	1	1				RMENLRLLCDELSNNVTGLDLS
21229	51597	c	21356	204	273	YSPMQS
21229	51598	В	21356	1	1062	
21231	51598	A	21358	1	397	QRPI*PTKPIGQRVSKGHQP\TR
21231	51399	n .	21330	Ι.	377	H\DFTOF\LAAHETISRLVGFSA
1		l	l			GQV\QYLDLIKK\DPSKLFNEER
		ĺ				LIDKTKVTYLKWLPESESLFLA
		ĺ	1			
1		ĺ	1			SHASGHLYLYNVSHPCASAPPQ
	L	<u> </u>	L			YSLLKQGEGFSVYAAKYNDLF

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop eodon, /=possible nueleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible писleotide insertion)
				sequenee		
21232	51600	A	21359	71	1736	FRTSLKDVWHTPLTPFLPPLKSI
						DLNKPIDKRIYKGTOPTCHDFN
		1				OFTAATETISLLFGSFSPRRTWA
		l				WCGPAV*AGPCPTAFLGTLRLI
						DKTKVTYLKWLPESESLFLASH
		1				ASGHLYLYNVSHPCASAPPQYS
		1				LLKO\AWGFSFYAAKSKAPRNP
						LAKWAVGEGPLNEFAFSPDGR
						HLACVSQDGCLRVFHFDSMLL
		l				RGLMKSYFGGLLCVCWSPDGR
						YVVTGGEDDLVTVWSFTEGRV
		l				VARGHGHKSWVNAVAFDSLY
						TTRAEEAATAAGADGERSGEE
						EEEEPEAAGTGSAGGAPLSPLP
		1				KAGSITYRFGSAGODTOFCLW
		1				DLTEDVLYPHPPLARTRTLPGT
		1				PGTTPPAASSSRGGEPGPGPLPR
						SLSRSNSLPHPAGGGKAGGPGV
		1				AAEPGTPFSIGRFATLTLQERRD
						RGAEKEHKRYHSLGNISRGGSG
l						GSGSGGEKPSGPVPRSRLDPAK
						VLGTALCPRIHEVPLLEPLVCK
						KIAOERLTVLLFLEDCIITACOE
						GLICTWPRPGKAFTDEETEAOT
İ						GEGSWPRSPSKSVVEGISSOPG
21233	51601	A	21360	2	467	LMQ/NWDAAMEDLTRLKETID
						NNSVSSPLQSLQQRTWLIHWSL
İ		ı				FVFFNHPKGRDNIIDLFLYOPH
						MLADKLNMTPEEAERWIVNLI
i		İ				RNARLDAKIDSKLGHVVMGNN
				i		AVSPYQQVIEKTKSLSFRSQML
		1				AMNIEKKLNONSRSEAPNWAT
						ODSGFY
21234	51602	В	21361	1	909	
21235	51603	Α	21362	3	3617	YWKERPTQKVIPRATENHGLKS
						YLQKTKLSIDEAAFLLPDTNLK
		l				SELLELLTHWLQVGVPMTPSLG
		ĺ				SINLLGWLTELRETHTYICWFIV
						KETTRDTDEEMCRTEPALACSI
						SHYCDDGCIQMLNTPETLQCSA
						KDSKHFIPKECSIPGENRPPSDT
						GKTVKFLSLNIFNLQLAESTDA
						EQRANCILRCFLTETTLNYQKIL
						SVRPGTKLATASHVSGLGLQTP
1						PFGLAOHLIRPHAFLAPKDPLTS
						FTERNSRSG
			L		L	2.0.500

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	
	sequence		09/540,217	eodon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
		l		scquenee		
		<u> </u>				
21236	51604	A	21363	75	2141	GPRLGLTTMWHEARKLGRRLR
		ı				GLLFDSRKRAERRREYYEKIKK
		l				DPAQFLQVHGRACKVH\LDSA
		l				VALAAESPVNMMPWQGDTNN
		l	1			MIDRFDVRAHL\DHIPDYTPPLA
						HHHFSQNQESDER\KCNYERYR
						GLVQNDFAGISEEQCLYQIYIDE
						LYGGLQRPSEDEKKKLAEKKA
		1				SIGYTYEDSTVAEVEKAAEKPE
						EEESAAEEESNSDEDEVIPDIDV
		l				EVDVDELNQEQVADLNKQATT
			1			YGMADGDFVRMLRKDKEEAE
						AIKHAKALEEEKAMYSGRRSR
1		l				RQRREFREKRLRGRKISPPSYAR
		1				RDSPTYDPYKRSPSESSSESRSR
		1				SRSPTPGREEKITFITSFGGSDEE
		1				AAAAAAAAASGVTTGKPPAP
		l				PQPGGPAPGRNASARRRSSSSSS
		1				SSSASRTSSSRSSSRSSRSRRGG
		l				GYYRSGRHARSRSRSWSRSRSR
		l				SRRYSRSRSRGRRHSGGGSRDG
1		l				HRYSRSPARRGGYGPRRRSRSR
		l				SHSGDRYRRGGRGLRHHSSSRS
						RSSWSLSPSRSRSLTRSRSHSPSF
1						SQSRSRSRSRSQSPSPSPAREKL
		l		l		TRPAASPAVGEKLKKTEPA\AG
		ļ.		l		KETGAAKV\PKLTPOEKLKLRM
						QKPL\NRQFKADKKAAQRKR*S
		l		i		QAEHERQERKDEA\RAMARKIG
1						MKERER\REKEREEWERQYSRQ
1						SRSPLP/RDYSREYSSSRRRSRSR
1						SRSPHYRH
21237	51605	A	21364	1	609	
21238	51606	Ā	21365	1	1227	
21239	51607	A	21366	1	1626	
21240	51608	A	21367	370	4388	GFIWNRITPTEDGQTRELQNHL
		1				GLSAPVPRGRKGKKVKTOTSSF
						DIQKAEWLRKYNPEQLLQDEG
				l		YKKHIKHHCNKVLLRVRMLYY
						LKQEVIGNECQKVFDGVDASDI
		1		I		DVWVPEPDHSEVPAEWWDFD
		1		l		ADKSLLIGVFKHGYEKYNTIRA
		1		l	1	DPALCFLERVGKPDEKAVAAE
		l				ORANDYMDGDVEDPEYKPAPA
						`
1		1		l		IFKDDIEDDVSSPGDLVIADGDG
		1		l		QLMEGDKVYWPTQSALTTRLR
		<u>L</u>		L	L	RLITAYQRTNKNRQIQQIQ

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO; in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21241	51609	A	21368		530	AEADAIIQMYREGQRARRQQQ AATSESSQSEASVRREESPMDV DQPSPSAQDTQSIASDGTPQGE KEKEERPPELPLLSEQLIALDEL WDMLGECLKELEESHDQHAVL ETHRTVLNQILRQSTTHLADGP FAVLVDYIRVLDFDVKRKYFR QELERLDEGLRKEDMAVHVRR DHVF
21242	51610	A	21369	1	217	
21243	51611	A	21370	274	599	PVSKESRVAPLCDFCLPFIQSES SQSEASVRREESPMDVDQPSPS AQDTQSIASDGTPQGEKEKEER PPELPILLSEQLSLDELWDMLGE CLKELEESHDQHAVLVLQPA
21244	51612	A	21371	2	731	TPTPTAPTVTSAPALVAATAI STIVVAASTIVTPTIATTVTPTTATTS SPTTKGSKSPAKVSDGGSSSTD FKMVSSGLTENQLQLSVEVLTS HCSEEGLEDAAVULQLSRGD SGTRDTVLKLLLNGARHLGYT LCKQIGTLLAELREVNLEQQRR AQCETLSPBOLPEEQPQTTKLK GKMQSRPSGLGSASSIQAAVR QLEAEADAIIQMSESSQSEASVR REESPMDVDQPSPSAQDTQSIA
21245	51613	Α	21372	208	423	LYVKPTAPPK*AL*SEGLE*MSP QCLWQGLQQGKAQKKLLEVP NKLTQTIN*PANVLILA*GGSSS YRPPHK

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	*=Stop codon, /=passible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
21246	51614	Α	21373	1	2002	MPQLPGISLPEGVDPSFLAALPD
					1	DIRREVLQNQLGIRPPTRTAPST
						NSSAPAVVGNPGVTEVSPEFLA
						ALPPAIQEEVLAQQTAEQQRPE
1	1					LAQNASSDTLMDPVTLIQTLPS
						DLRRSVLEDMEDSVLAVMPPDI
						AAEAQALRREQEARQRQLMHE
						RLFGHSSTSALSAILRSPAFTSR
						LSGNRGVQYTRLAVQRGGTFQ
					ŀ	MGGSSSH\NRPSGS\NVDTLLRL
1						RGRULLDHEALSCLLVLLFVDE
						PKLNTSRLHRVLRNLCYHAOT
						RHWVIRSLLSILORSSESELCIET
					1	PKLTTSEEKGKKSSKSCGSSSHE
		İ			1	NRPLDLLHKMESKSSNQLSW/L
						SSVSMDAALGFR\TNIFQIQRSG
						GRKHTEKHASGGSTVHIHPOA
1						APVVCRHVLDTLIQLAKVFPSH
1						FTOORTKETNCESDRERGNKA
1					ĺ	CSPCSSQSSSSGICTDFWDLLVK
İ						LDNMNVSRKGKNSVKSVPVSA
					ł	GENKVSEAQANSGSGASSTTTA
						TSTTSTTTTTAASTTPTPPTAPTP
		l				VTSAPALVAATAISTIVVAASTT
]		VTTPTTATTTVSISPTTKGSKSP
					l	
						AKVSDGGSSSTDFKMVSSGLTE
				1		NQLQLSVEVLTSHSCSEEGLED
	1					AANVLLQLSRRPARMLAMHW
	1			1		PSLYNVETEKTLALPNLIALQTS
	1					PFASGVIAKSSTDRLINQCAPV
		_				WRWR
21247	51615	Α	21374	1	6384	MVSPEPKTGHSIRNWLDELKDL
	l				ł	PILHAYSNLPSSPAVDLAIHSSK
				i	1	EGRMDWTEGQVTGPVVRSAAT
	l				İ	SGAGSTTSGVVSGSLGSREINYI
					1	LRVLGPAACRNPDIFTEVANCC
1						IRIALPAPRGSGTGNGSSRIPRES
		1			1	APEMATAESLVEELSEDAAGG
					1	ASPGVELPALGCSELPAAEVSP
		1				TASSKNLETICEYAYCMAMLPE
		1				TGLDPYPKRGFLDLTQERIWTD
1		1	1			IPPSPGNIPTTHPLMVRHADHSS
		1			l	LTLGSGSSTT
21248	51616	A	21375	1	1356	
21249	51617	A	21376	80	608	
		l				L

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21250	51618	A	21377	298	1374	GRGDWPDILNLTQATASWTPR
						WCCLRKPVEAPSGGATEERTLS
ŀ						LTSLGLSMPADPCEGGARSCLV
						TESARGGLONGOSVDVEETLPS
		ł				EPENGALLRSERYOGPRRRACS
	ŀ	1	l			ETLAESRTAVLQQRRAAQLPG
		1				GPAAAGEQRASPSKARLKEFLQ
ŀ	ŀ	1	ŀ			QCDREDLVELALPQLAQVVTV
	İ	1				YEFLLMKVAESLGITEFLRKKEI
		1				HPDNLGPKHLSRDMDGEQLEG
	l l		İ			ASS\EKREREAAEEGLASVKRP
		1	l			RREALSND\TT\ESLAAN\$RGRE
			İ			KPRPLHALAAGTIVSQEEDIVT
	1	1	ŀ			VTD/GRGACLRMGPLEGVPLEA
						VESVVTVEPEPSQ*NGVRY*NS
	1					SDFIQRRSMASNVYFSNVNIAQ
		ł				MNLLFIKNNVFL
21251	51619	С	21378	354	530	
21252	51620	Α	21379	1	1272	MVLSEKASGSTLRGCTEERTLS
		l	l			LTSLGLSMPADPCEGGARSCLV
	1		l			TESARGGLQFLQQCDREDLVEL
		1				ALPQLAQVVTVYEFLLMKVAE
	İ	1			1	SLGITEFLRKKEIHPDNLGPKHL
	1	1			i	SRDMDGEQLEGASSEKREREA
	i					AEEGLASVKRPRREALSNDTTE
		1				SLAANSRGREKPRPLHALAAES
ł	1					HTTTVSGGNGSVFQAGPQLQA
1						LANLEARRGSIGAALSSRDVSG
						LPVYAQSGEPRRLTQAQVAAFP
t	1	1				GENALEHSSAQDTWDSLRSPGF
t		l				CSPLSSGGGAESLPPGGPGHAE
	1					AGHLGKVCDFHLNHQQPSPTS
Į.		1				VLPTEVAAPPLEKILSVDSVAV
						DCAYRTVPKPGPQPGPHGSLLT
						EGCLRSLSGDLNRFPCGMEVHS
l		1				GQRELESVVCLSAETMAF*NFP\
						MGA\MSYCL\RD\RSRFLFRLPM GLSCPLOVO
21252	51621	-	21380	90	204	GLSCFLQVQ
21253	51621	A B	21380	13	423	
21254	101622	lts _	21381	13	443	<u> </u>

NO: of peptide sequence bod in USSN tocation of first procession of the sequence sequence bod in USSN tocation of first procession of the sequence	insertion) RHREPE LIF*TQS FKSPRQ RST\KER
	RHREPE LIF*TQS FKSPRQ RST\KER
21255 51623 A 21382 1513 2405 RRAQYRRWWRRWRR KEKRRHSRSHSRRRT RSRSRE***LHCQSRSR*** RRSHSRERGRSTARHY	LIF*TQS FKSPRQ RST\KER
KEKRRHSRSHSRRRRT RSRSE-LHCQSRSR- RRSHSRERGRSTARHY	LIF*TQS FKSPRQ RST\KER
KEKRRHSRSHSRRRRT RSRSE-LHCQSRSR- RRSHSRERGRSTARHY	LIF*TQS FKSPRQ RST\KER
RSRSRE*LHCQSRSR** RRSHSRERGRSTARHY	FKSPRQ RST\KER
RRSHSRERGRSTARHY	RST\KER
	CIKKKE
SLSPSPGKHKKKKKDK	EDNIDY
ERERSTSKKKSKDREK	
ESDTDVKVTRVYDEEE	
SQEIEMHADNPAAIQT	
DLONGLISTCRELSRA	
AWREYDKLEYDVTVT	
EQLDHLGEVQCWCYR	
MERGPEQDPKRAFLDF	
GESAVQSESKFIKTVKI	_
21256 51624 A 21384 1 180	
21257 51625 A 21385 3 115	
21258 51626 A 21386 3 312 LPTALLRSTMALLHSG	
AAAFHPGL/AA/AASAF	
THVEMGPPDPILGVTE.	
NSKKMNLGVGAYRDD	
VLPSVRKFVTVQTISGT	
21259 51627 A 21387 3 395 STMALLHSGRVLPGIA	
LAAAASARASSWWTH	
DPILGVTEAFKRDTNSI	
VGAYRDDNGKPYVLP	
AQIAAKNLDLLPLLNV	VCSLSS
HTVSPAAQGGTRKEDI	LGFACC
21260 51628 A 21388 1 303	
21261 51629 A 21389 2 425 RPE*WKEIATVVKKRN	
MAYQGFASGDGDKDA	WALHH
FIEQGINVCLCQSYAKN	MGLYG
EHVGAFTVVCKDADE	AKRVES
QLKILISPMYSNSPLNG	AQIASTI
PNTPVGLKVWVMGGL	HDHPQ
VMSDEKETTLRA	`

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	*-Stop codon, /-possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
		1		sequence		
21262	151.500	 	01000		1508	HEAGAGSLCVCPARPLLRPAAA
21262	51630	Α	21390	3	1508	
				ŀ		HCPSYRSTMAHACTSGRVLPGI
						AAA\FHPGLAAAASARASSWW
	1	l				THVEMGPPDPILGVTEAFKRDT
Ì						NSKKMNLGVGAYRDDNGKAL
		i				PCCPSVRKAEGPRLPQKIWDKE
1	l	l				YL\PIGG\LAEFCKASAELALGE
		l				NNRSLERVGRFVTVQTHFWEL
		l				GALRI\GASFL\QRFFKFSRDVFL
		l				PKPTWGETTHPSFRDAG\MQL\
		1				QGYR\YYDPKTCGFDFTGAVED
l		1				ISKIPEQSVLL\LHACG/HNNPTG
		1				VDPRPEQWKEIATVVKKRNLF
		l				AFFDMAYQGFASGDGDKDAW
		l				AVRHFIEQGINVCLCQSYAKNM
	1	1				GLYGERVGAFTMVCKDA\DES
		1			1	KRVESQLKILIRPMYSNPPLNG
		1				ARIAAAILNTPDLRKOWLQEVK
		l			1	GMADRI\IGHAGLOLVSNLOGR
		l				EG\STH\NWATHSPTKLGMFCF
					ĺ	HRG*KLEQVERLIKEFSIYMTK
		1		l		DGRISVAGVTSSNVGYLAHAIH
		ı		1		OVTKYVSLVRGNGDNLSVLSL
21263	51631	A	21391	1	184	`
21264	51632	Α	21392	70	253	
21265	51633	A	21393	1	351	VMEFYCOSCETAMCRECTEGE
						HAEHPTVPLKDVVEOHKASLO
		ĺ				VOLDAVNKRWGTLPKPPTGCL
1		1				YLRPGLMASC\OLTNOKASI/VD
1		l		l		DIHSTFDELOKTLNVRKSVLLM
		l				ELEVNYGLKHK
				L		DEE THI GERTIN

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleatide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hed	in USSN	location of first	codon for last amino acid	*-Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
			L			
21266	51634	A	21394	208	2546	WLHCMQQQRAGSKTAGPP\CQ
					ł	WSRMAS\EGTNIP\SLVVGQI\DK
					İ	QFLICSICLERYKNPKVLPCLHT
1		1	İ			FCERCLQNYIP\AHSLTLSCPVC
		ł				RQTSILPEKGVAALQNNFFITNL
						MDVLQ\RTPGSNAEESSILETVT
		1	l			AVAAGKP\LSCPNHDGNVMEF
		1			i	YCQSCETAMCRECTEGEHAEH
		1	•			PTVPLKDVVEQHKASLQVQLD
		1	ŀ			AVNKRWGTLPKPPTGCLYLRP
		1	İ	•		GLMASC\QLTNQKASIVDDIHST
	İ	1		·		FDELOKTLNVRKSVLLMELEV
		1	ļ			NYGLKHKVLQSQLDT\LLQGQE
		ł				SIKSCSNFTAOTLNHGTETEVLL
		1				VKKOMSEKLNELADODFPLHP
						RENDOLDFIVETEGLKKSIHNL
		1				GTILTTNAVASETVATGEGLRO
		1				TIIGOPMSVTITTKDKDGELCKT
		l				GNAYLTAELSTPDGSVADGEIL
						DNKNGTYEFLYTVOKEGDFTL
						SLSLYDOHIRGSPFKLKVIRSAD
		1				VSPPTEGVKRRVKSPGSGHVKO
						KAVKRPASMYSTGKRKENPIED
		l				
						DLIFRVGTKGRNKGEFTNLQGV AASTNGKILIADSNNOCVOIFSN
		1	1			
						DGQFKSRFGIRGRSPGQLQRPT
		1				GVAVHPSGDIIIADYDNKWVSI
		ĺ				FSSDGKFKTKIGSGKLMGPKGV
		l	l			SVDRNGHIIVVDNKACCVFIFQ
		l			1	PNGKIVTRFGSRGNGDRQFAGP
		l				HFAAVNSNNEIIITDFHNHSVKV
						FNQEGEFMLKFGSNGEGNGQF
21267	51635	Α	21395	1	591	
21268	51636	A	21396	3	608	LEGDQRWINTVSQALHLLSTLY
		l				GPFPNCYGIGRCAKMAYELWR
		l				NLEEEEDGETKGRRPEIGHIFLL
						DRGKLCPAFLSSFSPRRHGNME
		ł				GVVAKLKS*S*GCESQL*GAWV
		1				LGPMESIKAALGHAV*KAGSGR
		1				TFMVRDLCF\DVDFVTALCSQV
	l	1		l		VYEGLVDDTFRIKCGKCYGPLH
	İ	1				LGKMDGSSALAPATWGRVCGR
		1				DPHPE
21269	51637	A	21397	268	402	
21270	51638	A	21398	139	452	
2.2.0		1.		1		

NO: of		hod	SEQ ID NO: in USSN	location of first	codon for last amino acid	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
se						
21221 5			09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
21271 6				sequenee		
21271 6						
212/1 3	1639	A	21399	1	2497	MGPVAAPLGLSLPATDGAHSV
						RGNSVLVPSGLIPKDYRSLKTQ
						YLQSYGPEHLLTFSNLRRAGLL
						TEQAPGDTLTAVESKVSKLVTE
						KAAGKITDAFSSLAKRSNFRAIS
						KKLNLIPRVDGEYDLKVPRDM
						AYVFGGAYVPLSCRIIEQVLER
l i						RSWQGLDEVVRLLNCSDFAFT
						DMTKEDKASSESLRLILVVFLG
						GCTFSEISALRFLGREKGYRFIF
						LTTAVTNSARLMEAMSELPGK
						KDLFIETDLMSPLDRIANVSLLK
						QHEVDKLYKVENKPALSSNEQ
						LCFLVRPRIKNMRYIASLVNAD
						KLAGRTRKYKVIFSPQKFYACE
						MVLEEEGIYGDVSCDEWAFSLL
						PLDVDLLSMELPEFFRDYFLEG
						DQRWINTVAQALHLLSTLYGPL
						SQTCYGIGRCAK\MAYEFVEGT
						WEEEEDGRNPRARREGFG\HIF
						LL\DR\DVDFVDSTLLPKLVYEG
						LVDDTFRIKCGSVDFGPEVTSS
						DKSLKVLLNAEDKVFNEIRNEH
						FSNVFGFLSQKARNLQAQYDR
1 1						RRGMDIKOMKNFVSOELKGLK
						QEHY\LLSLHIG\ACESIMKKKT
						KODFQE\LIKT\EHALLEGFNIRE
		1				STSYIEEHIDRQVS\PIESLRLMC
						LLSITENGLIPKDYRSLKTOYLO
						SYGPEHLLTFSNLRRAG\LLTEQ
						APGDNLTAVESKVSKL\VTDKA
						AGKITDALS\SLAKRSQFRAISK
21272	1640	_	27.400		21/	AUKITDALSISLAKKSQFKAISK
	1640		21400 21401	2	216 270	
					600	CCD AT THE COURT A CCUIC A VICED I
21274 5	1642	A	21402	1		SGRALHASWAAGGVGAYSGRL
						RSDALEGESFA\LSF\SSASDAEF
						DAVVGYLEDIIMDDEFQLLQRN
						FMDKYYL\EFEDTEENKLIYTP\I
						FNEYISLVEKYIEEQ\LLQR\IPEF
						NMAAFHHNITPSVPVCRHHKD
						EVAW*QYSAMLAPPFTRFSWA
						F*RNVFGTYRGRKKEGRGL\DL
						SSGLV\VTSLCKSSSL\PASQNNL
						RH
21275 5	1643	A	21403	1	297	

SEO ID	SEO ID NO:	Mat	ISEO ID NO:	Nucleotide	Nucleotide Incation of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first		*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide		deletion, \-possible nucleotide insertion)
		l		scquence		
					L	
21276	51644	A	21404	1	1419	MGAPLLSPGWGAGAAGRRWW
						MLLAPLLPALLLVRPAGALVEG
						LYCGTRDCYEVLGVSRSAGKA
						EIARAYRQLARRYHPDRYRPQP
						GDEGPGRTPQSAEEAFLLVATA
İ						YETLKIVFPELKIVKELTTLLMP
				ł		SRAVWIIWSHKMSGGGAGPEL
						DIGYVPVLLHMPKRIGSGMDTS
						RSTTVIPVEIRNKELIALLVKAQ
						DRQEEETNYKLRPFNGLSYEVG
						YLVILQDEETRKDYDYMLDHP
						EEYYSHYYHYYSRRLAPKVDV
1						RVVILVSVCAISVFQFFSWWNS
						YNKAISYLATVPKYRIQATEIA
						KQQGLLKKAKAKSKNNKVQR
				ŀ		RNS*\EEENIIKNIIKSKIDIKGGY
						QKPQICDLLLFQIILAPFHLCSYI
						VWHCRWIYNFNIKGKEYGEEE
						RLYIIRKSMKMSKSQFDSLEDH
						QKETFLKRELWIKENYEVYKQ
						EQEEELKKKLANDPRWKRYRR
						WMKNEGPGRLTFVDD
21277	51645	Α	21405	1	1266	
21278	51646	Α	21406	1	739	
21279	51647	A	21407	1	428	

sequence	on, /=possible nucleotide possible nucleotide insertion)
	possible nucleotide insertion)
21280 51648 A 21408 99 2338 MPEEVH QLMSLII	
QLMSLII	
QLMSLII	IHGEEEVETFAFQAEIA
	INTFYSNKEIFLRELISN
	OKIRYESLTDPSKLDSG
	IIPNPOEPYPGLWVDTG
	ADLINNLGTIAKSGTKA
	AGADISMIGOFGDGFY
	AK\KVVVITKHP\DDEO
	AGGSFTVRADHGEPIA
	TLHLKEDQTEYLEERR
	KKH\SQFIGYPITLYLE
	ISDDEAEEEKGEKEEE
	KPKIEDVGSDEEDDSG
	KTKKIKEKYIDQEELNK
	RNPDDIT\QEEYGEFYK
	/EDHLAVKHFSVEGQL
	FIPRRAPFDLFENKKKK
	VRRVFIMDSCDELVPE\
	GVVDSEDLPLNIFRKML
	WKVIRKNIVKKCLELF
	KENYKKFYEAFSKNLK
	STN\RRRLSELLRYHTS
	MTSLSEYVS\RMKETQ
	GESK\EQVANSAFVER
	EVVYMT\EPI\DEYCVQ
	GKKLV\SVTKEGLELP
	KKMEESKAKFENLCK
	DKKVEK\VTIS\NRL\VS
	HKHLGAGQALIERDHE
	DHPPQGGIMMGKKAP
	PHFVETRAGRKADAR
	VKD/LWWVLLV*NPP
	SLEDPQT/HTPNRIYRI
21281 51649 A 21409 I 426	
21282 51650 A 21410 I 1305	
	SSASQFPSGARPQLPRP
	HSPISTTGLSESTDSDS
	FSAYNPSSRIPKSTTSS
	VTASNQDTGIPWVLV
	/NSPVESLQGSAFS S GF
	VKGPTLPPDSNLTSVSD
	RGPPIPNDLSQVSIQAP
	PECQYKGLPHPQCPASP
	DHLYPITFPQCRHKHL
LHPITSP	QCQGRRLPPPQCLTLR
GVQYKN	VLLHPVILSSCRHKDIL
NLITLA	3

NO: of peptide hod in USSN location of first codon for last amino	acid *=Stop codon, /=possible nucleotide
sequence 09/540,217 codon for peptide of peptide sequence	deletion, \=possible nuelcotide insertion)
sequence	
21284 51652 A 21412 24 667	MLPWLNCITTGVPWTPTSKRW
	LRNSKVCDCCDKTPSNAFSLLS
	VPPTTTSPASLAWWSGCARLLD
	LGSSSLMMSPTMASPACRPWL
	GQRWRLISGSWAWAIVPVT*VP
	VPEPSWKNRAG*PGCSSYESPH
	MRRPTRPSASCLEWAPRASLA
	MHLMATSFCVLLSSARITSEKA
	PLSGEGIHKVKNWNPSFPPASPP
	FPMGSVTTAGPRTWMTLP
21285 51653 A 21413 I 304	RAQVLPARCYPGSTVSPLGFRG
	LPLPRGGSEIPRCATAATRPHR
	MPFLFYLFLQQQHRPHHWHGG
	AAVPGFWTSAHPA\CDVTYHGF
	PSLQALAGPPWQCI
21286 51654 A 21414 1 7629	
21287 51655 A 21415 180 423	
21288 51656 A 21416 17 753	QAHTRRAGGRAQVLPARCYPG
	STVSPLGFRGLPLPRGGSEIPRC
	ATAATRPHRMPFLFYLFLQQQH
	RPHHWHGGAAVPGFWTSAHPA
	\CDVTYHGFPSLQALAGPEVEA
	HLRKLGLGYRARYVSASARAIL
	EEQGGL/RLAAAATRVLI*GGP
	QGPLHPAWSGHQGG*LHLPDG
	PRQAPGCARGCPYVAHCPT*LQ
	LAPYHVPGEGTEPPDQQGTGKL
	FPEPVGTLCWLGPSALSGHHHF
	YDLSRTP
21289 51657 A 21417 17 1087	QAHTRRAGGRAQVLPARCYPG
	STVSPLGFRGLPLPRGGSEIPRC
	ATAATRPHRMPFLFYLFLQQQH
	RPHHWHGGAAVPGFWTSAHPA
	CDVTYHGFPSLQALAGPEVEA
	HLRKLGLGYRARYVSASARAIL
	EEQGGL/RLAAAATRVLI*GGP
	QGPLHPAWSGHQGG*LHLPDG
	PRQAPGCARGCPYVAHCPT*LQ
	LAPYHVPGEGTEPPDQQGTGKL
	FPEPVGTLCWLGPSGWIRCLLK
	NYRLLPLDLEGLLGNAFDGHQ
	LLRPLIFCQDHLREGPPIGRGDS
	QGEELEPQLPSSLSSIPYGFCDH
	CWTKDVDDPPLVTHPSPGSRD
	GHMTQAWPVKVVSPLATVIGH
	VMQASLLAL

SEQ ID NO:	of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21290	51658	A	21418	3	1584	TQKNTAVRAHRL WGREKISK EGAGPTPOESRIGARSGALMT RKGRGMQEVEELSTGKVVKQ HRVGEALRVVVLVWAGSLG/D RKGLVLGRRGYYGAVPAVEMP ARALLPRRMGHRTLASTPALW ASIPCRSELLBLDLVLPSGQSFR WREQSPAHWSGVLADQVWTL TQTEEQLHCTVYRGNEGNSGASRP TPDELEAVRXYFQLDVTLAQL YHHWGSVDSHFQEVAQKFQG VRLLRQDPIECLFSFICSSNNINA RITGMVERLCQAFGPRLIQLDD VTYHGFPSLQALAGFEVEAHLR KLGLGYRARVYSASARAILEEQ GGLAWLQQLRESSYEBAHKAL LLEPGVGTKVADCICLMALDKP QAVPVDVHMWHIAQRDYSWH PTTSQAKGPSPOTINELONFFR SLWGPYAGWQAGLLGNAFD GHQLLRPLIFCQDHLREGPPIGG GDSQGEELEPQLPSSLSSIPYGF CDHCWTKDVDDPLVTHPSPG SKDGHMTQAWPVKVVSPLATV IGHWMGALLAL

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21291	51659	Α	21419	837	2785	WTRMLFAVSCNDGECONSNVI
						LFCDMCNLAVHQECYGVPYIPE
			ŀ			GOWLCRRCLOSPSRAVDCALC
						PNKGGAFKQTDDGRWAHVVC
						ALWIPEVCFANTVFLEPIDSIEHI
						PPARWKLTCYICKQRGSGACIQ
						CHKANCYTAFHVTCAQQAGLY
						MKMEPVRETGANGTSFSVRKT
						AYCDIHTPPGSARRLPALSHSE
						GEEDEDEEEDEGKGWSSEKVK
						KAKAKSRIKMKKARKILAEKR
						AAAPVVSVPCIPPHRLSKITNRL
						TIQRKSQFMQRLHSYWTLKRQ
						SRNGVPLLRRLQTHLQSQRNCD
	İ					QVGRDSEDKNWALKEQLKSW
						QRLRHDLERARLLVELIRKREK
						LKRETIKVQQIAMEMQLTPFLIL
				1		LRKTLEQLQEKDTGNIFSEPVPL
						SEVPDYLDHIKKPMDFFTMKQ
1						NLEAYRYLNFDDFEEDFNLIVS
						NCLKYNAKDTIFYRAAVRLRE
						QGGAVVRQARRQAEKMGIDFE
						TGMHIPHSLAGDEATHHTEDA
}						AEEERLVLLENQKHLPVEEQLK
						LLLERLDEVNASKQSVGRSRRA
						KMIKKEMTALRRKLAHQRETG
						RDGPERHGPSSRGSLTPHPAAC
		l		i		DKDGQTDSAAEESSSQETSKGL
						GPNMSSTPAHEVG\GEPQFCSP
				1		KRTRRQ/HGPPKRPGRPPKNRES
						QMTPSHGGSPVGPP/RAPHHEFP
						ASAQAG*EPQFCSPKRTRRQLD
21292	51660	Α	21420]1	2625	MENKITGYTTVDISQWHRKEHF
						EAFQSVAQCTYNQTVQLDITAF
						LKTVKKNKHKFYPAFIHILARL
						MNAHPEFRMAMKDGELVIWD
						SVHPCYTVFHEQTETFSSLWSE
	1					YHDDFRQFLHIYSQDVACYGE
			l	l		NLAYFPKGFIENMFFVSANPWV
				1		SFTSFDLNVANMDNFFAPVFTM
				l		GKYYTQGDKVLMPLAIQRDSE
				l		DKNWALKEQLKSWQRLRHDL
				l		ERARLLVELIRKREKLKRETIKV
				l		QQIAMEMQLTPFLILLRK

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide		Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codnn for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
		1		sequence		
21293	51661	Α	21421	164	1401	PPKGRGMQEVEELSETGKVVK
						QHRVGEALRVVVLVWAGSLG/
		l				DRRGLVLGRRGYYGAVPAVE
						MPARALLPRRMGHRTLASTPA
				l		LWASIPCPRSELRLDLVLPSGQS
l	l			l		FRWWREQSPAHWSGVLADQV
	1			i		WTLTQTEEQLHCTVYRGDKSQ
						ASRPTPDELEAVRKYFQLDVTL
ŀ						AQLYHHWGSVDSHFQEVAQKF
			i	i		QGVRLLRQDPIECLFSFICSSNN
l						NIARITGMVERLCQAFGPRLIQL
ĺ	l					DDVTYHGFPSLQALAGPEVEA
	l					HLRKLGLGYRARYVSASARAIL
						EEQGGLAWLQQLRESSYEEAH
1						KALCILPGVGTKVADCICLMAL
		1				DKPQAVPVDVHMWHIAQRDY
		l		Į.		SWHPTTSQAKGPSPQTNKELGN
						FFRSLWEPYAGWAQATPPSLQ
						VLFSADLRQSRHAQEPPAKRRK
21294	51662	Α	21422	751	2107	SSEHPRELHRIPISWAMSELKDC
	ŀ	l		1		PLQFHD\FKSVDHLKVCPRYTA
						VLARS\EDDGIGIEELDTLQLEL
						ETLLSSASRR\LRVLEAETQILT
						D\WQDK\KGDRRFLKLG\RDH\E
						FGAPPKHGKPKK\QKLE\GKAG
						HGPGP\CPGRPKSKNLQPK\IQE
	i					YEFTDDPIDVPRIPKNDAPNRF
]	Ì	1				WASVEPYCADITSEEVRTLEEL
						LKPPEDEAEHYKIPPLGKHYSQ
						RWAQEDLLEEQKDGARAAAV
						ADKKKGLMGPLTELDTKDVDA
		l				LLKKSEAQHEQPEDGCPFGALT QRLLQALVEENIISPMEDSPIPD
				1		MSGKESGADGASTSPRNQNKP
				1		FSVPHTKSLESRIKEELIA\OALL
1				1		*AGDLLAKDSEDEVLAELRKR
1		1		1		OG\EL\KALSAHNRTKKA\DLLR
		1				LAKEEVSRQE\LRQR\VRRAERE GMDAFRKIHGLPGRRKRNSPPK
						K\EKDQAWKNS*KEREEHP
21295	51663	A	21423	107	331	KEREZAWKIS KEREERF
21293	D1003	I^	14423	10/	221	

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21296	51664	A	21424	387	1071	NNPEWRTLIYVDKENGEPGTR VVAKDGLKLG\SGPSIKALDG\R SQVS\TPRFGKTFDAPTQPYLKL
	İ					PRKALG\TVNR\TTEKSVKDPGD
						PSNKKQPKLFRPKKDGPEEGLL
ļ						KAKKPLFPGLQD*CPIPEIRKIPF
1						PFNPS*TLRSF*PCPEEHPDCGTF
1						PL*VGV\PLMIPLTREREL*KSW
		l				FQLGPPFHLWKDGPLPPWGIPIC
						LQFSFQGISVRTWGV\DLPPVCC IDIDI
21297	51665	A	21425	480	1270	RSVKKVGAORPGSGGGWGGN
21297	31003	^	21423	400	1270	EGWVPQATAPGWAYTHVLFLY
						LFVTTPISAALRADGFGDNPFY
1		1				HCLVAEILPAPGKLLGKSTWPL
		l				EVHLSSRPORSPHRLPEALLPFS
		l				LSOG/HCVVGYGIYYFIYSTWK
		l				GRTIYLEDIYVMPEY/RGYWAE
		l				AEAGVGAKHPTDPTVIPCPQSP
						AGVIF*SPSAOTIAIFCLFLSTTG
						QGIGSKIIKKVAEVALDKGCSQ
						FRLAVLDWNQRAMDLYKALG
						AQDLTEAEGWHFFCFQGEATR
						KLAGK
21298	51666	A	21426	182	797	LPFARPWDFGPRQRGSGWLPC
						GSREAKEGDCGDIL\RLIRVKTA
	l					GPELAEFEKLFGSGERSVEEAL
		ŀ				ESRLAFGDNPFYHLFW*AEILP
1						APGESYWG/HCVVGYGIYYFIY
1						STWKGRTIYLEDIYVIAGNIGV
1						QGIGSQK*SKKV\AEVALGIRGC
1						SPNFRLARPLD\WNPEGPWDLY
						KAPRSPKI*RKLEGWHFFCFQG
21299	61667	<u> </u>	21427	224	490	EATRKLAGK QAGFISARNITWR*ANRRSTWR
21299	51667	A	21427	224	490	SYRRKSGRTANCPPISPPACSRC
						SAPIFIPKNGWWRAMVAPLKW
						PSTGAFNRLFVPLLTWWRSPDR
						1310ATIKELVILETWWKSIBK
21300	51668	A	21428	301	773	HGPGTOORPRSIWRMPO*ARPG
12.500		Γ.		I	1	GRSLAVGGGPRPRAAGGFP*VA
	1					SRARRCOR\AHGCHCAFSPLSP
	1					ALLSQDAGLCQSRPLLLGQRRC
	1		1	1		LSQEVWSGLGNVHFCQPPEDA
						ATTPSCPEALTAQGQQASVCDR
						VSHRFSTWSMVRCSDRTEGQR
						LQTLGD
21301	51669	В	21429	1	1380	

SEQ ID	ISEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:			in USSN	location of first		*=Stop codon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide	of peptide sequenee	deletion, \=possible nucleotide insertion)
			ľ	sequenee		
21302	51670	Α	21430	ī	1660	AGVLASHPNSTDVHIINLSLTFH
			Ì			GOELLSDTKLELNSGRRYGLIG
			l			LNGIGKSMLLSAIGKREVPIPEH
						IDIYHLTREMPPSDKTPLHCVM
						EVDTERAMLEKEAERLAHEDA
			ł		•	ECEKLMELYERLEELDADKAE
	i					MRASRILHGLGFTPAMQRKKL
						KDFSGGWRMRVALARALFIRPF
						MLI.LDEPTNHLDLDACVWLEE
						ELKTFKRILVLVSHSQDFLNGV
						CTNIIHMHNKKLKYYTGNYDQ
						YVKTRLELEENQMKRFHWEQD
						QIAHMKNYIARFGHGSAKLAR
						QAQSKEKTLQKMMASGLTERV
	1					VSDKTLSFYFPPCGKIPPPVIMV
			1			QNVSFKYTKDGPCIYNNLEFGI
						DLDTRVALVGPNGAGKSTLLK
						LLTGELLPTDGMIRKHSHVKIG
						RYHQHLQEQLDLDLSPLEYMM
						KCYPEIKEKEEMRKI\IGRYGLT
				İ		G\KQQV\$PIRNL\$DGQKCRVCL
					1	AWLAWQNPHMLFLDEPTNHL
						DIETIDALADAINEFEGGMMLV
	1		1	ľ		SHDFRLIQQVAQEIWVCEKQTI
						TKWPG\DIL\AYKEHLKSKLVD\

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last cotton for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
				acqueice.		
21303	5167I	Α	21431	78	2022	NNSNLPLWVIIMPSDLAKKKA.
						KKKEAAKARQRPRKGHEENG:
	i	l	1			VVTEPQVAEKNEANGRE/TTRI
	l	1				VDLLTKELEDFEMKKAAARA
	l				TGVLASHPNSTDVHIINLSLTFI	
		1				GQELLSDTKLELNSGRRY\GLI
		l				LNGIGIGKSMLLFAIGKREVPII
		1				EHIDIYHLTREMPPSDKTPLHC
		1			i .	MEVDTERAMLENEAERLAHE
						AECEKLMELYERLEELDAD*A
		1				MRASRI\LHGLGFTPAMQRKK
						KDFSGGWRMRVALARALFIRF
		ı				MLLLDEPTNHLDLDACVWLEI
						ELKTFKRILVLVSHSQDFLNGV
		[CTNIIHMHNKKLKYYTGNYD(
		l				YVKTRLELEENQMKRFHWEQ
		l				QIAHMKNYIARFGHGSAKLAF
	l				QAQSKEKTLQKMMASGLTER	
		1				VSDKTLSFYFPPCGKIPPPVIM
						QNVSFKYTKDGPCIYNNLEFG
		l				DLDTRVALVGPNGAGKSTLL
	1				LLTGELLPTDGMIRKHSHVKI	
	ı				RYHQHLQEQLDLDLSPLEYM	
		1				KCYPEIKEKEEMRKIIGRYGLT
		1				GKQQVSPIRNLSDGQKCRVCL
	1	1				WLAWQNPHMLFLDEPTNHLD
		l				ETIDALADAINEFEGGMMLVS
	i	l			1	DFRLIQQVAQEIWVCEKQTITH
		l				WPGDILA YKEHLKSKLVDEEP
						LTKRTHNVCTLTLASLPRP
21304	51672	A	21432	313	599	
21305	51673	A	21433	737	1006	DNPVVFVFGSVYMLDYVY*FS
		1			l	YVEPPLHPWDEAHLIMVDKLF
		l			1	DVLLDSVCQYFIEDFCINVNQC
		_				YWSKILFFCCISARLWYQDDA
21306	51674	Α	21434	1108	1260	GVNF\NLSCFLLWAFSAIHFPLI
		ı			i	TALNVSQRFWYVVSLFSLVSK
		_				NIFISAF
21307	51675	Α	21435	804	917	
21308	51676	Α	21436	158	298	
21309	51677	Α	21437	1	1068	
21310	51678	A	21438	1	1188	
21311	51679	Α	21439	122	352	
21312	51680	A	21440	647	662	ICGVISEGSVLFH*SISLFWYQY
				1		HAVLVT/DSLVV*FEVT*HDAS
	51681	В	21441	53	692	FVLLA*DRRPEGSSPKSP
21313	51682	В	21442	1	925	

SEO ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first		*=Stop codon, /=possible nucleotide
	sequence		09/540,217	coden for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
		1		sequence		
		_				
21316	51684	A	21444	33	852	CWKFWARAN*AGGITLPDFKL
						YYKATVTKTAWKFHFTMFGV
					1	DLKETCTAPSLWKDLALNTVE
						LVCKLCVRQVEGARQIFQLNCT
						VSE
	51685	A	21445	3	795	
21318	51686	Α	21446	475	1023	CWFSAGDGGLPGPDYGQDFAA
						HPAGAGALYKCRDLINDNILRT
1 1						VSCQSHDDGDIRGMAFARQ*Q
		1				RPVQIDHNMARRG**AATFQPI
					·	NKTFSGIHWPHGMRTGGTNPN
		ŀ				FENIECTNHIHTLGLPFSEVERN
1 1						DCDGFNFQLHIFRQTRDLHTAP
1 1						GRIGRLMLIEELLIDFVDGGKII
						QIGDKHGH
21319	51687	A	21447	1637	2020	PSSEEFTGGPARGFPERARAQL
						TGRTPGQRTQLDNDLLTKSTP
						WRGVMGPTLLPGLLAGPFOPL
1 1		1			l	GHTGPFYPOGFRWOKTHWVRL
					l	AQAHWQF*LGQFRGPKTADGG
		1				GSKGPGLSASHGAKHHVITYV
21320	51688	Α	21448	1051	1185	
	51689	Α.	21449	1290	2025	
	51690	В	21450	1	1410	
	51691	Α	21451	3269	3678	SLSIRLATAPCWLRYFASSRRFO
						PTRSAGSVTDSSVTASASSPG*R
		l				*NASP\CRERSHRSSRGOARRSL
						HLWDRSDR*TLPCDHGRCCHA
		l				NDQQVGFAGNYSTAGQT*RWT
						GFTAGHAGRDINKSADKLPAT
						AGKR
21324	51692	В	21452	2655	2825	rioliti
21325	51693	A	21453	1	896	MGDFNTPLSTLDRSMROKVNK
21323	31033	n .	21433	l	0,0	DTQELNSALHQADLIDIYRTLH
		l			İ	PKSTEYTFFSAPHHTYSKIDHIL
		1				GSKALLSKCKRTEITNYLSDHS
						AIKLELRIKNLTONHSTTWKLN
		l				NLLLSDYWVHNEMKAEIKMFF
1 1		ĺ				ETNENKDTTYQNLWDAFKAVC
		İ				RGKFIALNAHKRKQERSKIDTL
		l		l		TSQLKELEKQEQTHSKASRRQE
		l				ITKIRAELKEIETQKTLQKINESR
1				l		SWFFERINKIDRPLARLIKKKRE
		1				KNQIDTIKNDKGDITTDPTE\YK
1 1		l	ı	ŀ	ı	LPSENTTNTSTQIN*KI*KKWIN
		ı		I		SSTHTLSQD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleutide deletion, \=possible nucleotide insertion)
21326	51694	A	21454	23	559	TPGLRQSSLSPSAFASQNAGVS GIGGFLVSLTSRMKPWTLAMFR CVWSFFLLVSGWSCWLQE*SC RPSQ*VSQFLNSSASGVVCCSC LELFVPPGGFVVSLASRVKLQT FTVSVTAHKGOVPNSEQQQD LVQKAKEHSFCSVEADLSGLPL LAGAACFYSLMEPHPHPADWSI LORAD
21327	51695	Α	21455	26	323	
21328	51696	A	21456	221	734	
21329	51697	A	21457	293	2103	ICHISALSSPLPHINDCIALCFLINS GTSFVAGFAIFSILGI/MFNQEQG VPISEVAESGPGLAFIA/PRAVV MLPFSPLWACCFFFMVYLLGL SOSPC-VESL/TALL/DMYPHV FRKKNRREVLILGVSVISFL/GL IMLTEGGMY-VFQLFDYYAASG MCLLFVAIFESLCVAWVYGAK RFYDNIEDMIGYRPWPLIKYVGL LFL-TRAVCTAFLFSLIKYTPLL YNKKYTYPWWGDALGWLLAL SSMVCIPAWSL/TAFLISLIKYTPLL YNKKYTYPWWGDALGWLLAL SSMVCIPAWSL/TAFLISLIKYTPLL YNKKYTYPWWGDALGWLLAL SSMVCIPAWSL/TAFLISLIKYTPLL YNKKYTYPWWGDALGWLLAL SSMVCIPAWSL/TAFLISLIKYTPLL YNKKYTYPWWGDALGWLLAL SSMVCIPAWSL/TAFLISLIKYTPL YNKKYTYPWWGDALGWLLAL SGWIPAWSL/TAFLISLIKYTPL YNKKYTYPWWGDALGWLLA SGWIPAWSL/TAFLISLIKYTPL YNKKYTYPWWGDALGWLLA SGWIPAWSL/TAFLISLIKYTPL YNKKYTYPWWGDALGWL KEELGAGASYPODVMKT KLESKEADGASAYPODVMKT KLESKEADGASAYPODVMKT KLESKEADGASAYPODVMKT KLESKEADGASAYPODVMKT KLESKEADGASAYPODVMKT KLESKEADGASAYPODVMKT KLESKEADGASAYPOTPHWTHOGAPFL MEMYDTTNALHYBIGHTKKNHP GQKEAAHSQHGTPPIRWTINLL KRTFOKGRAEPNSAM
21330	51698	А	21458	1	419	MKLRTLAVSATALKVARLEFV PFDVRMCSEFLSSGVKLQTFAV SVTALNALRELFVPPGGLMVS LASGVKLQIFTVSVTAHKSSVD PKTLG/CVDGTGRRGAGGGAH RGGLGRTGAHGGGGRLRHGGL QVSSPAPRKGS

SEQ ID	SEQ ID NO:					Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN 09/540,217	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
2133I	51699	A	21459	24	1639	I IGGMDSRVSGTTSNGETKPVYP
l						VMEKKEEDGTLERGHWNNKM
		1				EFVLSVAGEIIGLGNVWRFPYL
İ						CYKNGGGAFFIPYLVFLFTCGIF
l					l	VFLLETALGQYTSQGGVTAWR
		1				KICPIFEGIGYASQMIVILLNVY
		1				YIIVLAWALFYLFSSFTIDLPWG
1		1				GCYHEWNTGNWVDVVE/HGG ¹
		1				GEWCGNGSNTPHVCR/VTGWT
		1	ŀ			W*SRWLKGMVWEWIQHTPCV
		1				QGTGWTW*STWLKG/PGNRVD
		1				VVEHVAEGNGVGMDPTHPTCA
		1				GNRVDVVEQVAEGNEHCMEF
		1				QKTNGSLNGTSENATSPVIEFW
						DSPPGPQFVCVECLVTASIDMF
		l				PRQLRKSGRRELLILTIAVMCY
		1				LIGLFLVTEGGMYIFQLFDYYA
						SSGICLLFLSLFEVVCISWVYGA
		l				DRFYDNIEDMIGYRPWPLVKIS
		1				WLFLTPGLCLATFLFSLSKYTPL
l		1				KYNNVYVYPPWGY\SIGWFLA
		1		ŀ		LSSMVCVPLFVVITLLKTRGPFF
		1				KVGGVGESDLLKEGTERGWT
		l				WGRTHNWGQGADTNSECGAA
21332	51700	A	21460	1358	4787	LQSHRILTRRTLKTSPVAFQKCS
21332	51700	I ^A	21400	1338	4/8/	RRCYCGIWSRYLLKRLWKWIS GEGWAEKDSARRRGICTFWLE
1		l				FE/VTCLSWNSLF/YAHINVDISC
		l		l		MKVPWLYVGMCFSSFCWHIED
		l				HWSYSINYLHWGEPKTWYGVP
		l				SHAAEQLEEVMRELAPELFESQ
		l				PDLLHQLVTIMNPNVLMEHGV
l		l				PVYRTNQCAGEFVVTFPRAYHS
1		l		1		GFNQGYNFAEAVNFCTADWLP
		l				IGROCVNHYRRLRRHCVFSHEE
i		l				LIFKMAADPECLDVGLAAMVC
		l				KELTLMTEEETRLRESVV
21333	51701	A	21461	I	5773	MEEKPLKVKGKDSSEKKRKRK
		l				LEKVEQLFGEGKQKSKELKKM
		l				DKPRKKKLKLGADKSKELNKL
		1	ļ			AKKLAKEEERKKKKEKAAAAK
		1				VELVKESTEKKREKKVLDIPSK
				l		YDWSGAEESDDENAVCAAQN
	1	l	l	1		CQRPCKDKVDWVQCDGGCDE
						WFHQVCVGVSPEMAENEDYIC
						NCAKKQGPVSPGSHKAVITVV
1	1	1		1		VKAVŞYLKFEEESTSELMWLL
1						AAFSSFWVVGIKALDFVWPLA
1	I	1		I	1	REEKEIGDNKDLERNKIGVNM

SEQ ID	ISEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
	1			sequence		
		<u> </u>				
21334	51702	A	21462	85	1333	STSRALSGAQRFGRLIDHGARV
				l		PALLLLLPL\VHVSATTPEPR\E
		1		l		LDDEDFRCVCNFSEPQPDWSEA
1	1			l		FQCVSA\VEVEIHAG\GLNL\EPF
	ļ	1				LK\RVDADADPRQYA\DTVKGF
1		1				PR/VRRASQVGAAQVPA\QLLV
						GALR\VLA\YSRFKELTLEDLKI
1		1				TG\TMPPLPLEATGLALS\SLRLR
						NVSW\ATGRSWL\AEL\QQWLK
						PG\LKVLSIAQAHSPAFSCEQVR
1				1		CFPGPSPA*DLSDNPGTGANAE
						LMAALCPHKFPA\IQNL\ALRNT
		1				GNGRRPQGVCAALAAAGVQPH
						SLDVSHNSLRANRNPS\AP\RCM
						\WSNA\LNSPQICRFAGAGTGVP
						KGPAPAKL\RVLRSSACNRL\NR
		1				A\PQPWTSLPE\VDNLGQLDGNP
						FPGSPGTGPSPTEGSMN\SGVVP
		Į.				SLCNVRTCRVGVSGTLVLLQG
1						ARGFA
21335	51703	A	21463	1640	5804	TITGSSPLAGGHHSTCRGRMDM
						VENADSLQAQERKDILMKYDK
				ł		GHRAGLPEDKGPEPVGINSSIDR
		ŀ		l		FGILHETELPPVTAREAKKIRRE
		ŀ		l		MTRTSKWMEMLGEWETYKHS
1	1					SKLIDRVYKGIPMNIRGPVWSV
						LLNIOEIKLKNPGRYOIMKERG
		ŀ				KRSSEHIHHIDLDVRTTLRNHV
		İ		1		FFRDRYGAKORELFYILLAYSE
		ŀ		Į.		YNPEVGYCRDLSHITALFLLYL
						PEEDAFWALVOLLASERHSLPG
1				1		FHSPNGGTVOGLOD
21336	51704	Α	21464	1	960	
21337	51705	Α	21465	1	1317	
21338	51706	A	21466	1	3393	
21339	51707	Α	21467	2745	6141	QGSKGTCHPQAQQPWDEGVW
						QEAPSQSEPWGQSQEPPTMPQR
						LPHARQHTPLPLGSADYRRVVS
						VRPQGPHRDPKDSRDAAKREQ
		l			i	GSLAPRPVPASRGGKTLCKGYR
						QAPPGPPAQFQRPICSASPPWAS
	1					RFSTPCPGGAVREDTYPVGTQG
	1	1		1		VPSLALAQGGPQGSWRFLEWK
						SMPRLPTDLDIGGPWFPHYDFE
						RSCWVRAISQEDQLATCWQAE
				1		HCGEVHNKDMSWPEEMSFTAN
		1				SSKIDROKVPTEKGATGL
21340	51708	A	21468	65	320	
21341	51709	A	21469	3	505	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21342	51710	A	21470	2	1756	CRCHSELSGSL*/CCTRGIGGAI GAVGFRSQAASTLAGQPDGNG VCVHAGNSRIFVPLPVGLEVKG FSHSAFTFGIESHISQSNINGTLV. PSPALISILQKGLQYVEAEISINK DGTVFDSRPIESLSLIVAVIPDV VQMRQQAFGEKLTQQQASA ATEASAMAKAATMTPAAISQQ NPPKNREATVNGEGEKLTQQASA OFFICENCE TO THE STATE OF THE
21343	51711	Α	21471	I	1647	
21344	51712	В	21472	4	267	
21345	51713	Α	21473	1	1824	
21346	51714	A	21474	33	543	TFEGANNFVGDPIVLPCNPPKG LPPLHIYWMNIELEHIEQDERV YMSQKGDLYFANVGRRRDSRN D\YCCFA\AFPRIKGLLYRKMPM RNLTVNSSNSIKAKENPKLLLA SPLRSGSESSITILKGEILLLECF AEGLPTPQVDWNKIGGDLPKG REAKENYGKTLKIENVY
21347	51715	A	21475	197	516	TYLAAGRTPTILDPWNQERCTM PSGSIWILETTHSSFGWVTVAH LSSDPKGCQF*VGSRIGEGSATD PAFCASCSATWTIRPSRSNGA*G VNG**VCWLEPLAGPHR

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X-Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21348	51716	Α	21476	1	1766	MNVALTHIDTHHAEFEMALQA
						ALVWNTLRTAGGKKSVHLASA
l		l				LLVHEIIIDGANLTISNVTLEDO
						GIYCCSAHTALDSAADITQVTV
						LDVPDPPENLHLSERONRSVRL
		l	ľ			TWEAGADHNSNISEYIVEFEGN
						KEEPGRWEELTRVOGKKTTVIL
1		1	i			PLAPFVRYOFRVIAVNEVGRSO
1						PSQPSDHHETPPAAPDRNPQNIR
		1				VQASQPKEMIIKWEPLKSMEQN
ļ		l				GP\GLEYRVTWKPQGAPVEWE
1		1				EETVTNHTLRVMTPAVYAPYD
		l				VKVQAINQLGSGPDPQSVTLYS
			1			GEDLPEQPTFLKVIKVDKDTAT
		1				LSWGLPKKLNGNLTGYLLQYQ
		1				IINDTYEIGELNDINITTPSKPSW
				l		HLSNLNATTKYKFYLRACTSQ
		1		i .		GCGKPITEESSTLGEGSVSLEKC
1						ENKLIRNIGTKKQGTAIRIPENV
1						EAALELRKQQKLEECGGFRRRE
						NANEQQGVTEEFKQQNEKLRF
		1				LLLKIVILAVAREMTWNGEGR
		1				DLSEPSLTVVFADLSSPAYSLHT
		1				TMAQEPGPGLFLSLSTIPWPISSI
		1				PMIHASVQVSWIPLLRNSLMVH
1		l		ł		IHSSLEQRNLKVHISKEQKKLNS
						VDSDLTDNPPTHTVN
21349	51717	Α	21477	1	1440	
21350	51718	A	21478	266	3974	RAMEPLLLGRGLIVYLMFLLLK
		1				FSKAIEIPSSVQQVPTIIKQSKVQ
		1				VAFPFDEYFQIECEAKGNPEPTF
						SWTKDGNPFYFTDHRIIPSNNS
						GTFRIPNEGHISHFQGKYRCFAS
						NKLGIAMSEEIEFIVPSVPKFPK
1						EKIDPLEVEEGDPIVLPCNPPKG
1		l		l		LPPLHIYWMNIELEHIEQDERV
		l				YMSQKGDLYFANVEEKDSRND
		1		l		YCCFAAFPRLRTIVQKMPMKLT
	1	1		l		VNSLKHANDSSSSTEIGSKANSI
1_	l	l		l		KQRKPKL

SEQ ID SEQ NO: of per seque	tide hod	SEQ ID NO: in USSN 09/540,217	location of first	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
21351 5171	9 9 A	21479		2421	QAGAMASGSVAECLQĢETTCP VCLQYFAEPMILDGGHNICCA CLARCWGTAETNVSCPQCRETF PQRHMRPNRHLANVTQLVKQL KTERNSGPGEMGVCEKHEEPL KLYCEEDQMPICVVCDRSREIFL KLYCEEDQMPICVVCDRSREIFL KLYCEEDQMPICVVCDRSREIFL KLYCEEDQMPICVVCDRSREIFL KLYCEEDQMPICVVCDRSREIFL KLYTRLKFIDFLAQGEQA RAELLSLTHMEREKIVWEFFQL UFSLEKENGTERLAQUEDLA YNSINGAITOFSCNISHLSSLIAQ LEEKHQQFTRELLQDIGDISLA LEEKHQQFTRELLQDIGDISLA LEEKHQPTRELLQDIGDISLA AVINGAITOFSCNISHLSSLIAQ LEEKHQQFTRELLQDIGDISLA AVINGAITOFSCNISHLSSLIAQ LEEKHQVFTRELLQDIGDISLA AVINGAITOFSCNISHLSSLIAQ LEEKHQVFTRELLQDIGDISLA VERSTURE GERGIKAGYGTCNCFPEEKE GEPGRIKAGYGTCNCFPEEKE GEPGRIKAGYGTCNCFPEEKE GEPGRIKAGYGTCNCFPEEKE GEPGRIKAGYGTCNCFPEEKE GEPGRIKAGYGTCNCFPEEKE GEPGRIKAGYGTCNCFPEEKE GEGFGKVVKWATAFHLKGRAG YTTVAVKMLKENASPSELDL LSEFNVLKQVNHPHVIKLYGAC SQDGPLLLIVEYAKYGSLRGFL RESREVGFGYLGSGGSRNSSSL DHDDERALTMGDLISFAWQISQ GMQYLAEMKLYHRDLAARNIL VAEGRKMKISDFGLRDVYEE DPYVKRSQGRIPVKWMAIESLF DHYTTQSDVWSFGVLLWEITGH LGGNPYPGIPFERLFNLLENTH

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nuclcotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
			}	sequence		
21352	51720	Α	21480	79	2253	PSATLSCPTSVAASLGEPAVFPL
	1					SLRGHRRRHRPGHSKPSVRGRV
	1	1				WDTGPGGAALRPPGASQEORT
						GESAGELGSVQSSAPGPMPVRP
						RRPGAMASGSVAECLQQETTC
						PVCLQYFAEPMMLDCGHNICC
	l	l				ACLARC\WGTEET\NVS\CPQCR
		ı	1			E\TFPQRHMRPNRHLANVTQLV
		1				KQLRTERP\SGPGGEMG\VCE\K
						HREPLKLYCEEDQMPICVVCDF
	l					SREHRGHSVLPLEEAVEGFKEQ
	İ					IQNQLDHLKRVKDLKKRRRAQ
	l					GEQARAELLSL\TQ\MEREKIVW
		Į.]		E\FEQLYHSLKEHEYRLLARLEE
		ı				LDLAIYNSINGAITQFSCNISHLS
	İ	ŀ	1			SLIAQLEEKQQQPT\RELLQDIG
		l				DTLSRAERIRIPEPWITPPDLQE
		l	İ			KIHIF\AQK\CLFLTESLKQFTEK
						MQSDMEKIQELREAQLYSVDV
		1				TLDPDTAYPSLILSDNLRQVRY
		1				SYLQQDLPDNPERFNL\FPCVLC
		l				SP\CFIAGETIIWEGRGWGDKAK
						WTIG\VC*RLSCQEKGGVTSAP
	1	1				QNGFW\AVSLWYGK\EYW\ALT
		1				SPMTALPLRTPFQ\RVGIFL\DYE
		1				A\GEVSF\YN\VTERC/HTPFTFSS
		1				CLPFGGLVRPLLSSLSYSGREK
	İ	l	1			VQLPLINLPP*SGIDGGFLAHVG
		İ				NHGSFPWKTFPFEGRVNSGPK
	1	l	1	ł		GLLAVILRPGTRHLVCLANVLS
	1	1				KLGILNHVPRPCSGRHGCPCSLI
		l				SFFLPMQIVKCNEMYQDILEIKT
21353	51721	Α	21481	1	1068	

SEQ ID	SEQ ID NO:		SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21354	51722	Α	21482	955	2548	MSLCGARANAKMMAAYNGGT
						SAAAAGHHHHHHHHLPHLPPP
						HLHHHHHPQHHLHPGSAAAVH
1	ľ					PVQQHTSSAAAAAAAAAAAAA
	ŀ	1				MLNPGQQQPYFPSPAPGQAPGP
						AAAAPAQVQAAAAATVKAHH
		l				HQHSHHPQQQLDIEPDRPIGYG
						AFGVVWSVTDPRDGKRVALKK
						MPNVFQNLVSCKRVFRELKML
						CFFKHDNVLSALDIL*PPHIDYF
						EEIYVVTELMQSDLHKIIVSPQP
1						LSSDHVKVFLYQILRGL\KYLHF
		l				RLGILH\RDIKPGNLLVNSNCVL
						KICDFGLARVEELDESRHMTQE
				1		VVTQYYRAPEILMGSRHYSNAI
						DIWSVGCIFAELLGRRILFQAQS
						PIQQLDLITDLLGTPSLEAMRTA
						CEGAKAHILRGPHKQPSLPVLY
						TLSSQAT\H*TGHLLFAECGFDP
		1		1		SKRISAKDALSHPYLDEGRLRY
						HTCMCKCCLSPS\TGRVNT\SDL
						EPVT\NPKFDDTFEKNLSPVRQV
						KEIIHQFILEQ\QKGNRV\PLWIN
1		1				PQSAVFKSFISSTVAQPSEMPP\S
						PLVWE
21355	51723	A	21483	119	692	SYKSRLARKS\TGGKAP\RKQLA
						YKKPASQECGPLTGGVKKPHR
						YR\PGTVAAP*NLDGYQKSTE\L
				i		MIRK\LRFQR\LVREIAQ\DF\KT
						DLRFQSAVIRWLCRMAS\EAYL
						VWPFLKDTNLVCLSMPKRVTIY
ŀ						AKKTFQLSTPASRGERALRIHS
1						WMGKHFILKKKKKKKFLFFLLL
						VVLNVRYFFFHGVKRYLSI
21356	51724	Α	21484	2	363	RFTKVEMKEK\MLSAAREKGR
				l		VTHKGKPISLKADLSAETLQAR
1				i		REWGPIFNILKEKNFQPRISYPA
	1		l	I	1	KLSFISEQEIKYFTDKQMLRDFV
			I	l		ITRPALKELLKEALNMERNNW
		L				YQPLQKHAKL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide scquence		Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21357	51725	A	21485	1	1468	MRNICKNIQKARATINIGISEDE GLAGFMWSREA APLPNTRWC LPHGYSGPANSGCYVITTGMS CWLSDLYPRHDGVHYGLQGK DLEHDIPVOLGSRPTSVDPVSRS APCPQGPKAPVDSSRTTPANP GAGPSPVDPSSRSAPLPVDTNST LPVFDTGHSHAPEDPVDRLTSV DPTKEKNWENEFECKLTEVGF RRSVITNFSELKEHVLTHRKEA KNLEKRLDEWLSRITCAEKSLN DLMELKTTVRELREAYTSPMS CPPQAFERISVIEDQINEIKLKSL QAQEDARHNTDQRSSENRS EPWSLEERKREWNSKEPWSLETCAEKSLN DLYDELTENGEN LENGVAD GOTTEMBOY LENGVAD LENG

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
i		1		sequence		
01050	1.000	<u> </u>	01406		10500	L ACOMUNICATION OF THE OCCUPANT
21358	51726	Α	21486	1	2589	MSPVTLWVRTSSRGEDRCGMC
		l		ŀ		TPGRDTGFAPISGMCSKYRSCTI
		l			1	NEDTGLGLAFTMPMSLDTKHIP
					ĺ	NFGKVHGYIMRHHKNEDTIPW
		1				RRNTKKEEARGTQPLEADDQN
					ĺ	PGWEDGKPGSLENEGRRSHRG
1		l				NPAPDMPQPPKEDLFILPDEYK
1		l				SCLRHKRSLLRSHRNEELNVET
		l				LVVVDKKMMQNHGHENITTY
		l				VLTILNMERILKKTSFTIIHPSA
		l				MERCPVLNLQIRDSLWNHCFSL
		1				ATTVHRFHPVGRHALKKMYKL
		l				PSAYINVSITKYTQRFALTYISC
	1	1				VFHRNAAFVAVPGEGRCCAGV
		1]		DVPAPMSLRSPGPHWPOEHGA
1		1				LWISCTVRGMASCLGQLCRVS
		1				MRVRANIGKVOKPRLRISNGK
1		1				GLHTOSELSGSAYLEKGWRGA
1		1				APGLDSRNEKGTEGARDSGTPG
		1				ROSOTLORGPPGPVPGSSKIAPO
						TLTROGSMTASRKLVLLLPEFC
		1				ERTGEOSGOLYPPSPLLVEWV
			l			MPAGTSSTVDPLLPELCRRWER
						QALSLCRLYRQRTSVSIKALCD
		ļ				HTETRSVALSTCQGLECNSSPA
		l				
						RKQNWMENEFEELTEVGFRKS
		l		1		VITKFSKLKEHILTHRKEAKNLE
		1				KRLDEWLTRITSVEKSLNDLME
		1	İ			LKTTVRK\LHEAYTSFNSRFDQ
		l		j		VEERILVIEHQINEIKQEDKVRE
		l				KRVKRNEQSLQEIWDCVKRPN
						LCLIGVPESDGENGTKLENT\LQ
21359	51727	A	21487	260	1292	RLCAFNKRMTFQFNFTIEDHLE
1		ĺ		,		NELTPIRDGALTLDSSKELSVSE
		l				SQKGEERDRKCSAEQFDLPQD
						HLWEHKSMENAAPSQDTDSPL
		l				SAASSSRNLEPHGKQPSLRAAK
1		1				EHAMPKOLKKMLENKVIETLP
1		i				GFQHVKLSVVKTILLKENFPGE
		1				NIVSKSFSSHSDLITGVYEGGLK
1		1				IWECTFDLLAYFTKAKVKFAG
1		1		l		KKVLDLGCGSGLLGITAFKGGS
1	1	1		1		KEIHFODYNSMVIDEVT\LPNV
1		1				VANSTLEDEENDVNEPDVKRC
1		[1		RKPKVTOLYKCRFFSGEWSEFC
1		1				KLVLSSEKLFVKYDLI\LTSETIY
1		1				NPDYYSNLHOTFLRLLSKNGRV
		1	-	1		,
L			L	L	L	LLASKAHVQRNSLSRL

SEO ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	nf peptide	hod	in USSN	Incation of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \mpossible nucleotide insertion)
		1		sequence		
21360	51728	A	21488	263	1466	RLCAFNKRMTFQFNFTIEDHL\E
21360	31/28	Ι^	21488	263	1400	NELTPIRDG\ALTL\DSSKEL\SVS
		l				ESOKGRKE\RDRKCSAEOF\DLP
		1				
1		l				QDHLWGNISSMGKWQAPS\QG
		l	ļ			HRTSSTSVAASSSRNL\EPHGKT
		l				ALLAGAGQRSMAMPKRF*RRC
		1				LEN*SPLET\LPGFQHVKLSVVK
		l				TILLKENFPGENIVSKSFSSHSDL
		1			i	ITGVYEGGLKIWECTFDLLAYF
		1				TKAKVKFAGKKVLDLGCGSGL
		1				LGITAFKGASKEIHF\QDYNSMV
						IDEVTLPNVVA\NS\TLEDGGKM
1		l				DVKWSPDVEKMPGNPKVTQ\L
						YKC\RFFS\GEWS*VL*ALYLSSE
İ		l				K\LFVKYDPHSSPSET\IYNP\DY
						YSNL\HQTFLRLLSKNG\RVLLA
						SKAHYFG VGGGVHLFQKFVEE
						RDVFKTRILKIIDEGLKRFIIEITF
21361	51729	Α	21489	2	367	
21362	51730	A	21490	2	376	QTYSLRRATPRHIIVGFTKVEM
1		1				KEKVLRAA/NKPIRLTVDLSAET
						LQARKEGGPIFNILKEKNFQPRI
				1		SYPAKLSFISEGEIKSFTDKQML
						KDFVTTRPALQELLKEALNME
						RNNQYQPLQKHAKW
21363	51731	Α	21491	1	690	
21364	51732	Α	21492	1	714	
21365	51733	A	21493	1	1536 765	
21366	51734	A	21494	1	972	
21367	51736	A	21495 21496	1	2670	
21369	51737	A	21496	2	1178	
21370	51738	A	21497	2	827	
21370	51739	A	21499	1	777	
21372	51740	A	21500	168	1057	IRLKNDHDGELRNKTICINRNL
2.0.2	21710	ľ.,			1	AEIKKFSENYENKETMYLNLW
					ŀ	DVAKAVLRGQFIALNARIKKLE
		1			İ	KSQVYNLISQLKELENQEQTNP
						KASRRQEITKIRAELKEVETWK
						TLKKINESGRGVDCSS/DASNGT
1		ı				KPDGE*L**VDKSR/PSEARQAN
1						IHIOEIHGTPOR*SLRRATPRH/II
		l				VRFTKVEMKEKMLRAARKKG
1		l				
1		l	1			WVTHKGKPIRLTADLLAETLQ
		1				ARREWGPIFNILKEKNFQLRISY
		1				PAKLSFIREGEIKAFTEKQILRDF
		1				VTTRPALQELLKEALNMERND
	L	L			l	RYQPLQKHAKL

SEQ ID NO:	SEQ ID NO:					Amino acid sequence (X=Unknown,
NO:	of peptide sequence	hod	in USSN 09/540,217	location of first codon for peptide	codon for last amino acid of peptide sequence	*=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
	requence	1		sequence	or p-prior sequence	
21373	51741	A	21501	3	11263	GRTIQTKGKEV\ENFEKNLEECI
213/3	21741	l ^A	21301	ľ	1203	TRITNTEKCLKELMELKTKARE
		1				
		1				VREECRSLRSQCDQLEERVSAM
		l				EDEMNEMKQEGKFREKRIKRN EQSLQEIWDYVKRPNLRLIGVP
						ESDVENGTKLENTLODIIQENFP
		1				
						NLARQANVQIQERQRTPQRYSS RRATPRHIIVRFTKVEMKEKMG
		1				LLVPNWTNHSPLFRAILFDYKG
		1				
1		l				FCRFGTTHQTGFSPAGANQRGP
		l l				LAATLSGPGGEGQSAVARLTGL
1						IGVPESDVEKETKLETTLQDIIQ
		ŀ				ENFPILARQANVQIQEIQRTPQR
						YSSRRATPRHIIVRFTKVEMKE
		ŀ				KMLRAAREKGRVTLKGKPIRL
		ŀ				TADLSAETLQARREWGPIFNIL
						KEKNFQPRISYPAKLSFISEGEIK
						SFTDKQMLRDFVTTRPALKELL
01071	#1##D		01500		2256	KEALNMERNNRYQPLQNHAK
21374	51742	В	21502	1	2356	
21375	51743	A	21503	2	484	
21376	51744	Α	21504	2	902	ASFFSKKTSGFGGWGAGGPGD
		l		1		PGMGNHGGFRGGFSRGIRGWG
					1	HSRGQGPGQGRGAHRGKTKDK
						EWTSIPKLGHLVKDMKIKFLEEI
						YLFFLAIKEFEIIDFFLGASLKDE
	ŀ					VLKIMPVQKQTHASQRTRLKG
					,	FIVIGDYNG/HVGLGVKCSKEV
			l		1	A/TAIRGAIILG*LSIVPMCRGY
				ł	i	WGSKIGKPHTVPCKVTGHCGS
				i		VLVHFIPAPRGTGIVSVPMP/KK
						LLLMAGIYDCY/ARSCTATLGN
				l		FTKATFDAISKTYSYPTPNLWK
						ETVFTKSP/YEFRNSGQEFTDYL
		<u> </u>				VKT/HIRVSVQRTQAPAVATT
21377	51745	A	21505	2	407	STISCGGNFPIPRGGSGVASLER
	1		1			AESSSTEPAKAIKPIDRKSVHQI
	1		1	1		CSGPVVPSLSTAVKELVENSLD
	1		l	1		AGATNIDLKLKDYGVDLIEVSG
	l		l			NGCGVEEENFEGLTLKHHTSKI
L	L	L				QEFADL\LSDVTISTCHVSAKVG
21378	51746	A	21506	362	490	
21379	51747	Α	21507	3009	3889	
21380	51748	Α	21508	1	504	LDDLHKWFLSSFLLTAISIGIKF
				1		LLKIHISRGSGVLLQLLPGNPSP
1		1	1	l		AAHGTEELEPKFLEQGYLRAVL
				l		PGPRVHATA*LEPTVTDQGYAR
				l		AGLPIQEVEDVLFGVLVVLLHV
						IGQVAEDRNQVAAQGHHQES/C
				-		PAQCWGDCTHLEIAGWRGIRRS
1						DANPRSQRKGFG

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*-Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
1				sequence		
21381	51749	A	21509	2	1101	WTERRLGSVRGDRLRERSRPA
21001	517.7			Г		VNRTPRMSRVPSGAPRGTPSRR
						WWMMKCWDHQPLG*IPAPHV
		l			1	GPLAG/IRKKEWSDESEEEPEKE
						LAPEPEETWVVEMLCGLKMKL
		1				KQQRVSPILPEHHKDFNSQLAP
1						GVDPSPPHRSFCWKRKREWWD
		1				ESEESLEEEPRKVLAPEPEEIWV
		İ				AEMLCGLKMKLKRRRVSLVLP
		l				EHHEAFNRLLEDPVIKRFLAWD
		l				KDLRVSDKYLLAMVIAYFSRA
		l				GLPSWQYQRIHFFLALYLAND
		l				MEEDDEDPKQNIFYFLYGKTRS
l		l				RIPLVRNRRFQLCRCLNPRARK
1						NRSQIALFQKLRFQFFCSMSGR
1						AWVSREELEENTGPRGDVDFQ
		1				QELYSNANGRQQERGEEPFVQI
21382	51750	Α	21510	3	918	
21383	51751	Α	21511	1	792	
21384	51752	Α	21512	3007	3885	
21385	51753	Α	21513	615	845	GHTASPPPRSPQAQGRAPSVAP
		ı				PPTTPQICPTTPSSFSSKRTYAG
		ı				GWDLPQGQADC*SPCGAQGG
						WVTLAVASASS
21386	51754	Α	21514	357	562	GSSTCGRETERVVLKKRKRSPT
		l			1	HFQYRNSPTAEARPQLE\PTQW
						GRRSHSPRPSAPLPCSCPQKSRK
21387	51755	Α	21515	1	1335	sv
21388	51756	A	21516	537	1164	SSTEPAKAIKPIDRKSVHQICSG
21300	31730	ľ.	21310	337	1104	PVVLSLSTAVKELVENSLDAGA
						TNIDLKLKDYGVDLIEVSDNGC
						GVEEENFEGLISF\TLKHHTCKI
		1				QEFADLTEVETFGFQGEALSSL
		l				CALSDVTISTCHASVKVGTRLV
İ		l				FDHDGKIIOETPYP\HPRGTTVS
		1				VKOLFSTLPVRHKEFORNIKK\R
		1				ACFPFAFCRDCQFPEASP\AMLP
						VOPAELMAV
21389	51757	A	21517	224	903	GFTWYIGMAQPKQERVARARH
		1				ORSETARHORSETAKTPTLGNR
		l				OTPTLGNROTPRLGIHARPRRR
İ		ı				ATTSLLTLLRAFGKKTQS/STEP
		l				AKAIKPIDRKSVHQICSGPVVLS
						LSTAVKKIVGNSLDAGATNIDL
		1				KLKDYGMDLIEVSGNGCGVEE
		1				ENFEGLSWDSTGVFDHDGKIIQ
					1	KTPYPHPRGTTVSVKQLFSTLP
		1			1	VRHKEFQRNIKKPVGEKYMRS
						VDTQACSCI

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence		Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21390		A	21518	2	1321	VKSRAALLGPGA/LSPLEVSRRE WYERRIGSVRGDRLERERSRPA VNRTPRMSRVPSGAPRGTPSRR WWMMKCWDHQPLG-IPAPHV GPLAG/IRKREWSDESEEPEKE LAPEPEETWVVEML.CGLKMLL KQQRVSSILDEHIHKDFNSQL GVMSPSPHRSFCWKRKMEWV DQSESSLEEEPRKVLAPEPEEIW VAEMLCGLKMKLKRRRYSLVV. PEHHEAFNRLLEDPVIKRFLAW DKOLD KYSDKYLLAMVIAYFSR AGFPSWQYQRIHFFLAVLAND MEEDDEDSKQNIFHFLYKNNS RIPLLRKRWICHSNNPRAKK NRSRIPLLKKRRFQLYRSTNPRA KNRSRIPLLKKRRFQLYRSTNPRA KNRSRIPLLKKRRFQLYRSTNPRA KNRSRIPLLKCRRFQLYRSTNPRA KNRSRIPLLKCRRFQLYRSTNPRA KNRSRIPLLKCRRFQLYRSTNPRA KNRSRIPLLKCRRFQLYRSTNPRA KNRSRIPLLKCRRFQLYRSTNPRA KNRSRIPLLKCRRFQLYRSTNPRA KNRSRIPLLTKRRFQLYRSTNPRA KNRSRIPLLTKRRFQLYRSTNPRA KNRSRIPLLTKRRFQLYRSTNPRA KNRSRIPLLTKRRFQLYRSTNPRA KNRSRIPLLTKRRFQLYRSTNPRA KNRSRIPLLTKRRFQLYRSTNPRA KNRSRIPLLTKRRFQLYRSTNPRA KNRSRIPLLTKRRFQLYRSTNPRA KNRSRIPLLTKRRFQLYRSTNPRA KNRSRIPLTKRRFQLYRSTNPRA KNRSRIPLTKRRFQLYRSTNPRA KNRSRIPLTKRRFQLYRSTNPRA KNRSRIPLTKRRFQLYRSTNPRA KNRSRIPLTKRRFQLYRSTNPRA KNRSRIPLTKRRFQLYRSTNPRA KNRSRIPLTKRRFQLYRSTNPRA KNRSRIPLTKRRFQLYRSTNPRA KNRSRIPLTKRRFQLYRSTNPRA KNRSRIPLTKRRFQLYRSTNPRA KNRSRIPLTKRRFQLYRSTNPRA KNRSRIPLTKRRFQLYRSTNPRA KNRSRIPLTRA KNRSRIPTR

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21391	51759	Α	21519	I	2654	RSACGSPAWNFPSPRGGSGVAS ME\RAESSSTEPAKAIKPIDQKS
		1				
		1				VHQICSGQVVLSLSTAVKELVE INSLDAGATNIDLKLKDYGVDLI
		1				EVSDNGCGVEEENFEGLTLKH
1						HTSKIHEFADLTQVETFGFRGE
		l				ALSSLCALSDVTIFTCHASAKV
						GTRLMFDHNGKIIOKTPYPRPR
		l				GTTVSVQQLFSTLPVRHKEFQR
						NIKKEYAKMVQVLHAYC\SFQ
1		l				QASV*VAPISLDK/RKRQPVVCT
1		ŀ				GGSPSIKENIGSVFGQKQLQSLI
		1				PFVQLPPSDSVCEEYGLSCSDA
		1				LHNLFYISGFISQCTHGVGRSST
						DROFFFINRRPCDPAKVCRLVN
		1	ŀ			EVYHMYNRHQYPFVVLNISVD
						SECVDINVTPDKRQILLQEEKLL
						LAVLKTSLIGMFDSDVNKLNVS
		1		1		QQPLLDVEGNLIKMHAADLEK
1		1				PMVEKQDQSPSLRTGEEKKDV
		l				SISRLREAFSLRHTTENKPHSPK
		l				TPEPRRSPLGQKRGMLSSSTSG
			i			AISDKGVLRPQKEAVSSSHGPS
						DPTDRAEVEKDSGHGSTSVDSE
1						GFSIPDTGSHCSSEYAASSPGDR
		1				GSQEHVDSQEKAPETDDSFSDV
		1			i	DCHSNQEDTGCKFRVLPQPTNL
		ļ				ATPNTKRFKKEEILSSSDICQKL
					i	VNTQDMSASQVDVAVKINKKV
1						VPLDFSMSSLAKRIKQLHHEAQ
1		1				QSEGEQNYRKFRAKICPGENQA AEDELRKEISKTMFAEMEIIGOF
01000	51760	١.	01500	020	413	AEDELKKEISKTMFAEMEIIOQF
21392	51760 51761	A	21520	238	467	
21393	51762	A	21522	1	3038	MDVGWDLGEDCWQEHLHTAF
21394	31702	ľ^	21322	ľ	5050	SFDCWPCSQNGDRVPSVNPVG
		1			i	GGAPRSYLQVASAECWAAAPA
		1		ļ		VHVGEPVHAGGLHTERGADPV
		1		ļ		IGLYLVHRGGACOTPTVGNRO
	1				i	TPTLGIHARPRRRATTSLLTLLL
		1				AFGKNAVRTEPAKAIKPIDRKS
1						VHQICSGPVVPSLSTAVKELVE
						NSLDAGATNIDLKLKDKESGL\I
						KVQANEWGVKEETSKGLLLKH
						HTSKIQEFADLPQVETFGFRGE
1			l			ALSSLCALSDVTISTCHV
21395	51763	Α	21523	34	256	ETGPPGSAPGRLEFTNIKRVVVP
	1	1	l			QERVELETLLVSYFSPRTPRRTP
			l	1		PPFPHPCS*EDNVITVFSSIKNGP
	1					GSSR

NO: of peptide hod in USSN location of first codon for last amino acid	Amino acid sequence (X=Unknown, =Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
	HVSGYDDVPLCTLSLDJWPPAL FSVSYSAAFFFTPIEAVLKSFSC LLVWYIGMAQPKGERVARARH QRSETAKTPILGA ROTPILGINGYDFLGIHARPR RATTSLLTLLRAFGKKTOS/STE PAKAIKPIDRKSVYHQICSGQVVL SLSTAVKKIVENSLDAGATNID LKLKDYGMDLIEVSGNGCGVE EENFKGLTLKHHTSKIGEFADL TRVETFOFRGEALSSLCALSDV TISTCHVSAKVGTRLVFDHDGK KIGKTPYPHPRGTTVSVKQLFST LPVRHKEFQRNIKKAQR?QAR VCRCS*PNVSPGFMAAASTLS A*PRSQSSYFISCKA/EDNAICPI AEQKAGEFSSRV RNHDSACN RCROSHONSPGFOMAASTLS KRRPQHASSFEWRGHSLCWDR RCROSHONSPGFOMAASTLS KRRPQHASSFEWRGHSLCWDR RCROSHONSPGFOMAASTLS KRRPCHASSFEWRGHSLCWDR RCROSHONSPGFOMAASTLS APPRSQSYFISCKA/EDNAICPI AEQKAGEFSSRV RNHDSACN RCROSHONSPGFOMSTGVPLQE VVDDEVSGPSAPGVDPSPRRS LGWKRKRECLDESDDEPEKEL LGWKRKRECLDESDDEPEKEL LGWKRKRECLDESDDEPEKEL LGWKRKRECLDESDDEPEKEL LGWKRKRECLDESDDEPEKEL LGWKRKRECLDESDDEPEKEL LGWKRKRECLDESDDEPEKEL LGWKRKRECLDESDDEPEKEL LGWKRKRECLDESDDEPEKEL LGWKRRFCLDESDDEPEKEL LGWKRRFCLDESDDEPEKEL LGWKRRFCLDESDDEPEKEL LGWKRRFCLDESDDEPEKEL LGWKRRFCLDESDDEPEKEL LGWKRRFCLDESDDEPEKEL LGWKRRFCLDESDDEPEKEL LGWKRRFCLDESDDEPEKEL LGWKRFTLPASRICIRPSNTP PPRHFHINSTVTPMLSYLANDM VIKKLLAWDGINFYLLYEETRSHI PPERFFHNSTVTPMLSYLANDM PROFINENTYPTPMLSTYLANDM PROFINENTYPTPMLSTYLANDM RCGOLLFRKYRFFFFCSMRCRA

SEO ID	ISEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	l	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
			İ	sequence		
21397	51765	A	21525	1054	2349	SCPQIIFLSSCLQVASAECWAAA
						PAVHVGEPVHAGGLHTERGAD
						PVIGLYLVHRGGACOTPI\IGSR
		1				OTPTLGIHARPRRRATTSLLTLL
		1				LAFGKNAVRCALIGPGSLTSRT
		1			i	RPLTEPLGEKERREVFFPPRPER
		1				VEHNVESSRWEPRRRGACGSR
						GGNFP\SPRGG\SGVASLERAES
		1			ŀ	SSTEPAKAIKPIDRKSVHOICSG
		1				PVVPSLRPNAVKELVENSLDAG
		1				A\TNVDLKLKDYGVDLIEVSG\
1		ļ.			ĺ	NGCGVEEENFEGL/TSLSALKH
		ļ.				HTSKIREFADLTRVETFGFRGE/
		1				AL*ASLCALSDVTISTCHVSAK\
						VGTLTGVFDHDGKIIPENPPNPH
		l			1	PRGTTVSVKQLFSTLPV\RHKEF
						QRNIKKKRA\CFPFAFCRDCQFP
		1	İ			EASPAMLPVQPAELTPR\STP\PH
İ		1				PCSLEDNVITVFSS\VKNGPGSS
		ı				KMICTNGSSPSS
21398	51766	Α	21526	2	393	
21399	51767	Α	21527	2	165	
21400	51768	Α	21528	3	196	
21401	51769	Α	21529	1	411	
21402	51770	Α	21530	1	1727	GPQGVGRMAEGKAGGAAGLF
		1				AKQVQKKFSRAQEKVLQKLGK
						AVETKDERFEQSASNFYQQQA
		1			1	EGHKLYKDLKNFLSAVKVMHE
		1	i			SSKRVSETLQFIYY\SEWYGHEE
						LKAIVWNNDLLWEDYEEKL\A
		ļ				DQAVRTMEIYVAQFSEIKE\RIA
						KRGRKLVDYDSARHHLEAVQN
	İ	l				AKKKDEAKTAKAEEEFNKAQT
		ļ				VFEDLNQELLEELPILYNSRIGC
					1	YVTIFQNISNLRDVFYREMSKL
						NHNLYEVMSKLEKQHSNKVFV
						VKGLSSSSRRSLVISPGVRTATV
		1				SSPLTSPTSPSTLSLKSESESVSA
		l				TEDLAPDAAQGEDNSEIKELLE
ļ		l				EEEIEKEGSEAGSSEEDDPLPAC
1						NGPAQAQPSPTTERAK\SQEEV
ļ		1				LPSSTTPSPGGALSPSGQLSSSA
		1	į.			TEVVLRTRTASEGSE\RPKKTAS
1			1			IQRTSAPPRRPPPPRATASPRPCS
l					i	GNIPSSPTASGGGSA\TSPRASL
			1			GTGTASPRTSLEI*PNPE\PPEKP
						VRTPEAKENENIHNQNPEELCT
						SPTLMTSQVASEPGEAKKMED
	1		1			KEKDNKLISADSSEGQDQLQVS
21.400		<u> </u>	21521	ļ.———	1500	MVPENNNLTAPEPQEEVSTSEN
21403	51771	Α	21531	1	1530	

SEQ ID NO:	SEQ ID NO: of peptide		SEQ ID NO: in USSN	Nucleotide location of first	Nucleotide location of last codon for last amino acid	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21404	51000	<u>_</u>	27.522	499	1587	HPRDPEAPSGPLWSASLPALYS
21404	51772	A	21532	499	1387	QGHANEFDGSNSTSHAVLVLV
						OKHIKAVLSNKLCLSTSSLVOG
						VNAHLGTLIWPOPRGYLSPRSA
						IPWFSVPTVTSGLHFPWEVQ*LF
		1				LLSCWGKAHQSLPQRMPPLLC
						COGMWVPEGSMATVGLSOOLF
						DSALLLLQKAGALNLDITGQLR
l						SDDNLLNTSALGRLIPEVAROF
						PEPMPVVLKVRLGATPVAHGS
						TOTTATLRPASPFVGGSWATGP
						PNSAFPSPSSP/CLVVVNLRTPAS
						L/SSKGEALREHVCAWWMSOL
						TVASSNVGFIDTDQVRTLMGTV
1						FEKPLLDHLNGSLGHGELPSLV
						WVNLHYVAPEIFVYEGYVVISS
		ŀ				GTLLPEPEAKTTGRP
21405	51773	A	21533	1385	3111	IAPSEVKEHKMVLEMLNPIHYN
21403	3.775			1.500		ITSIVPEAMPAATMPVLLLTGLF
		l				LLVWNYEGTSSIPGPGYCMGIG
		l				PLISHGRFLW\MGIG\SACNYYN
1		l				RVYGEFMRVWISGEETLIISKSS
		l				SMFHIMKHNHYSSRFGSKLGLO
		l				CIGMHEKGIIF\NNNPELWKTTR
						PFLYERLCHAPASVRMVTVCA
						ESLKTHLDRL\EEVTT\ESGLCG
						TCLTLLRRVHGWDTSNTVFL\G
1						IPL\EESAIVVKIQG\YFDAWQAL
		ŀ		İ		LIKPDIFFKISWLYKKYE\KSVK
İ			İ			DL\KDA\IEVLIAEKRRRISTEEK
ĺ						LEECMDFATELILAEKRGDLTR
						ENVNQCILEMLIAAPDTMSVSL
						FFMLFLIAKHP\NVEEAIIKEI\QT
						VIGERDIKIDDIQKLKVMENFIY
						ESMRYQPVVDLVMAQSL*EG*
						C*SMGYPV\KKGTNIYSWNIG\R
				ļ		VHRL*FFPKPNEFTLENFAKNV
	1			l		PYRYFQPFGFGPRGCAGKY/LS
	l					AMVMMKAIL\VTLLRTDST*RT
l						LPGTSVFESIQEGYTTCPWHPD\
1					1	ETKNML\EMDLYPKETSDRCLG
						TLRRKAGQYLTLGAFSPSVCSP
						TNHPILCPLVFILHSGTLSGPMA
21406	51774	A	21534	129	378	IVCKFSVSTHKNIRAKKPDERLP
						ECGTQIRKDTLKRVRRTVLHYL
						C\PPPSVPEIPAWR\GDCSP/VGK
L		L			L	EGKCTPDLNPNIELRPV

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide sequence	hod	in USSN 09/540,217	location of first codon for peptide	eodon for last amino acid of peptide sequence	*=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
	Sequence		02/340,217	sequence	or pepilar sequence	actetion, i possion macteodoc inscrition,
	<u> </u>	L_				
21407	51775	Α	21535	1	474	MQKQIISVTEVEWYPKYNSNM
						KEYWSTQNHQFEQLSTHKNIR
						AKKPDERLPECGTQIRKDTLKR
			ĺ			PCPLDRPLWPHITAEQGSKPST
				1		WPAPCDP/IF*ANIHLPSLHTGPC
						RSKVQAHSSRPGCQASSTCVPR
			1			LQDLPC*PRFRLTLVDQDARPA
		Į.				APVYQGSRTYPADPDSRPAPVD
						SGCIISGQADW
21408	51776	Α	21536	2	325	
21409	51777	A	21537	2	1011	WAFSITERREFQVYYNSCPSSS
						WIGDARAFSPPDPTGLYPIYSQ
						DTQTFRLWLNYNTDFPGSPAC
						KWQAMELLSPQSPFRVDRGEH
						LPFLVKGARYTLVPAGQEGAL
1						AAWLEALRGQLGRRGAVVSM MDAEGLERSSPDCAMGLSDGE
						WQLVLN\VWGKVEADIPGHG\Q
						EVLIRLFKGHPETL\EKFDK/FTR
				1		HLKSED\EMKASED\LKKHMCH
						TVLTP\LGVHILRE\KGHH*ROR
						FKPLGTSSHCHPSTKIPPLKVTL
						EFHLPGIAFIQVLAEQAIPGDFG\
						AECPGAQLKQRPWELF\RKNNG
			1			LPTYKEAGAFOGARALAGFPTP
						THLGPPGFKKRAGV
21410	51778	Α	21538	157	322	
21411	51779	В	21539	1	975	
21412	51780	Α	21540	218	388	RKLPLAGLPCINRQHS*SNVNIC
i					1	FLTPV*KIQN*LQSEQFLPYPTIV
			_			IITLCFFAV
21413	51781	Α	21541	663	933	GCAGPCLVNQMFGKQYYLGKS
1				I		HHP\SLVSLNRGAHCTVGKPQG
						PSGP*KLGYYFKVFPPCG*FWK
1						YGPSWGMEERAWTGSPLGPGP
						PLKKV
21414	51782	Α	21542	389	1033	NQGLRNLGLCRTCLVNKMFTS
1			1			SILGKSHRHSLVSINQGNNALW
		ĺ				KAAG\PLPLKAGYC\QGFSPCHS
						LKYG\SWDEKDLTVPQPDTLKG
						SVLRWISKRGKPLAVEIEEGHC
						L\CLPLGTECLGIK/PPIVHLFNSE
					l	IGE\NRPYGGR*DMFCSNGCLG*
1				1		FL*LPLRCLG\GEKHKSGL/HVHI
1						PVIVPPLELNYDIDSFAHMFF\V
		_			_	DLS\LIITLLSCYIPFC
21415	51783	A	21543	82	163	
21416	51784	В	21544	1	211	l

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21417	51785	A	21545	71	1086	NMNLSLVLAAFCLGIASAVPKF
21417	31703	^	21343	l''	1000	DONLOTKWYOWKATHRRLYG
						ANEEGWRRAVWEKNMKMIEL
						HNG/EKYSOGKH\GFTMAMNA
	l	ŀ				FGDMTNEEFROMMGCFRNOKF
			l			RKGKVFREPLFLDLPKSVDWR
			ľ			
	l					KKGYVTPVKNQKQCGSCWAFS
	İ					ATGALEGQMFRKTGKLVSLSE
	l			ļ		QNLVDCSRPQGNQGCNGGFMA
						RAFQYVKENGGLDSEESYPYV
						AVDEICKYRPENSVANDTGFTV
	l					VAPGKEKALMKAVATVGPISV
	ŀ					AMDAGHSSFQFYKSGI\YF*PDC
						ISKNLDQGVLVVGYVFEGANS
						NNSKYWLVKNSWGP\EWGS\N
		i			l	GYVKIAKD\KNNHCGIATAASY
21418	51786	A	21546	170	412	LWLSFLLMHWH*IPLAAVSVFT
	ŀ					VSN/PILDFS*IQLKTPKHFGNLG
						NTGFLGKQLRLLLRSLVSVSRL
						HCLLGYRRTQMPPL
21419	51787	Α	21547	1	753	
21420	51788	A	21548	125	464	TAVFLTQSLFGGLFTRTRMKFG
						TMTRI/RGDLPWEINPLSSCSLL
						HEKDPPTTSGPQTNQPKKHLTN
	ľ				l i	FKSRKVERTKGLLKTHLTKLSH
						QLKKAWTILLPLSLLRIQACPR
						NAT
21421	51789	Α	21549	1	753	
21422	51790	Α	21550	291	671	
21423	51791	A	21551	10	453	TALLLTQSLFGGLFTRTRMKFG
	1					AMTRIG\DLPWEINPLSSCSLLC
					ļ	EKHPPTTSGPQTDQPKKHLTNF
						KSETKETCFIHEPKTLAPVTDW
						EGSLPLVFNHCRDGLSDHSATF
						QGCQTMQGCLPWSFTLSGKSR
						FPGAGASTPQPLLLHP
21424	51792	A	21552	740	1010	TAMLLKQSLFGCLFTRTRMKF
						GAVTRIG\DLP*ETNPLSSCSLLR
						DKDPPTTSSPQTHQPKKHLTNF
						KSGCSSPGRARSQSFLSLCSSTL
21425	51793	A	21553	134	358	TAMLLTQSLFGGLFTRTRMKFG
	1					AVIRIG\DLLWEINPLSSCSLLHE
		l				KDPPTTSGPQTDQPKKHLTNFK
						SSCSSPG
21426	51794	A	21554	392	645	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21427	51795	Α	21555	1	1900	MQNALESLSNRIEQVEERNSEL
						EDKFFELTQSNKDKEKRIRKYK
					ŀ	OSLKEVWDYVKGPNLRIISVPE
						EEENSKSLENIFGEIIEENLPSLA
						RHLDNQIQEAQRTLWKLIAKRS
						LPRHIVIRLSKVKTKERILRAVR
						QKHQVTHLTCKESYKLKVKG
		l				WKRHFMQMDTKNEQGIKNEN
				1		HLIISIDVEKASDKIQQRFMIKTL
			1			SKIGIQGKYLNVIKAIYDKPTAN
		1	İ		ŀ	ITLNREK/LESIPSEKLKAFPLRT
						GTRQGCPLSPLFFNTVLEVLAR
i		l				AIRQEKEIKGIQIGKEEVKLSLF
		l				ADDMIMYLENPKDSSRKLLEWI
1		l				KESNKVSGYKTHVHKSVALLY
		l	ł			TKQ*\QAENQIKNRNPFAIAAKK
		1				KKKKKKKKKRNSRIYLTKESK
		1				DLYKENYKTLLKEIIDNMNKW
		1				KHIPCSWMGRISIVKKL*\LQKA
		1				IYKLNAILIKIPPLLFTELEKTILK
		1				FIWKSNKS\RIAKVILSKKNKSG
			ŀ			GITLPDFKLYYTIRKINSKWIKD
		ļ				LNLRPETIQILEDNIGKTLLEIGL
						GKDFMTKNPKANAKKKTKINR
				ŀ		WDLIKLKSFCTAKGTVSRVKRT
						HRVGENLPHYTSIHPTIYTIYTS
		1				DKGLISRIYNEFKQIVTRTTCVF
						LHPPHPKAKTTSYGDQLLGGN
21428	51796	С	21556	10	339	
21429	51797	В	21557	97	1458	
21430	51798	Α	21558	I	387	
21431	51799	A	21559	3	604	GSVIAYYWSEFSIPQHLVEEAE
				1		RVMAEERVFMLPPRARSLKSFV
		ļ		l		VTSVVAFRESEGQGWAWDWPP
						FHGVGLGPGPLQGTGTPRAQCP
1				l	1	REKTTCWPGTSL*IIRKQE*GNG
1		l		1		LYQEMLYSPSYSSATDSKTVQR
	Ì	1		1		TQDNSCSFGLHARGVELMRFTT
		1				PGFPDSPYPAHARCQWALRGD
	1	1	1	1		ADSVLSLTFRSFDLASCDEARS
			L			DLV

SEQ ID	SEQ ID NO:					Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21432	51800	Α	21560	1000	2084	FRGTPVQRGGGWADLPGRCGE
						LGRRLRSEEQARRVHKAPS/DF
		l			1	GTG/LKENTGKVNGLEEGVEFL
ł		ł				PVNNVKKVEKHGPGRWVVLA
						AVLIGLLLVLLGIGFLVWHLQY
						RDVRVQKVFNGYMRITNENFV
						DAYENSNSTEFVSLASKVKDAL
1						LYSGVPFLGPYHKESAVTAFM
1						WVWREGSVGCTPDWLGVGSG
1						YSVWGTKREMVLEVLDWRAK
						EGPRCVLLEGSVIAYYWSEFSIP
					1	QHLVEEAERVMAEERVVMLPP
						RARSLKSFVVTSVVAFPTDSKT
				i		VQRTQDNSCSFGLHARGVELM
					1	RFTTPGFPDSPYPAHARCQWAL
					RGDADSVLSLTFRSFDLASCDE	
						RGSDLVTVYNTLSPMEPHALV
21433	5180I	Α	21561	3	2820	TGALILQKGEIRVINQTTCENLL
İ						PQQITPRMMCVGFLSGGVDSC
l l						QVPPGQEGGRQFPLKETNNRK
1					ľ	GRLPKRLRPHTWCCYSLECSSY
1						SLRCTEDTWTEDQKVNGLEEG
						VEFLPVNNVKKVEKHGPGRWV
						VLAAVLIGLLLVLLGIGFLVWH
1				ľ		LQYRDVRVQKVFNGYMRITNE
1		1				NFVDAYENSNSTEFVSLASKVK DALKLLYSGVPFLGPYHKESAV
				Ì		TAFSEGSVIAYYWSEFSIPQHLV
	1	1	1			EEAERVMAEERVVMLP
21434	51802	A	21562	I11	465	EEAERVIVIALERVVIVIEI
21435	51803	A	21563	2	197	
21436	51804	A	21564	359	405	EMOSRED*RK*YL*RIVNCVPL
F				I		RERLGYVCGGLGERSKEGTLWI
						YQGLQKSQDTGRV
21437	51805	Α	21565	208	287	IVSRSEKGWVMYVEGWEREAR
						REHYGYIKGYKNHRIHMMQSS
						KALV*LEDLRKHI*IFRCVFSNP
						QVILML
21438	51806	С	21566	141	305	
21439	51807	Α	21567	170	973	RMAACRALKAVLVDLSGTLHI
1						EDAAVPG\AQEALKRLRGASVII
						RFVTNTTKESKQDLF\KRLRKL
						G\FDISEDEIFTSL\TAARSLL*\R
	1		l		1	KQVTPMLLVD*SGHYLIFKGIQ
	1	1	l		1	TSDPN\AVVMGIGTRTFSLSKF
	1		1		1	WNQAFRLLLGWSTSDSNSQSQ
1	1	1	l		1	GFQEFKMGLALGPWTIL*LL*K
	1	1	l		1	YATDTKATVVGKPEKTFFLGSI
1	1	1	1		1	AGHWLLNLEEAVMIG\DDCRG\
		1			1	DVGGAQDVGMLGILVKTGKYR
		_			l	ASDEEKINPPPYLTCESFPHAVD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21440	51808	Α	21568	42	211	
21441	51809	A	21569	92	366	AGSEMRPGLTWACSLARLLLSP
	İ					SFIKHWFLESCLLSCSRSGSGYA
						QWCPPHQSASAAGHCQTPAHA
						QAYLSSPPQMDHSSVRSLLEAC
	1					QTY*SASAAGHCQTPAHAQAY
						LSSPPQMDHSSVRSLLEACQTY
21442	51810	Α	21570	1	834	
21443	51811	Α	21571	3	835	
21444	51812	Α	21572	1	1649	MPIVLVDWSDIREQKRLMVLR
		l				ASVALHGRSVTLYEKAFPLSEQ
						CSKKAHDQFLADLASILPSNTT
						PLIVSDAGFKVPWYKSVEKLG
						WYWLSRVRGKVQYADLGAEN
						WKPISNLHDMSSSHSKTLGYKR
		1				LTKSNPISCQILLYKSRSKGRKN
	1			1		QRSTRTHCHHPSPKIYSASAKEP
	1					WVLATNLPVEIRTPKQLVNIYS
1		1				KRMQIEETFRDLKSPAYGLGLR
	1	1				HSRTSSSERFDIMLLIALMLQLT
	1			1		CWLAGVHAQKQGWDKHFQAN
		1				TVRNRNGSLLTNWPSVPPTIKE
						EENSEEELAAATTSKEQEPIGTD
						LDAVRTPEPLEEFPKREDQEGS
						PPETSLPYKWVVEAANLLIPAV
						GSSLSEALDLIESDPDAWCDLS
						KFDLPEEPSAEDSINNSLVQLQA
				l		SHQQQVLPPRQPSA\LVPSVTEY
1				1		RLDGHTISDLSRSSRG\ELIPISPS
1				1		TEVGGSGIGTPPSVLKRQRKRR
				1		VALSPVTENSTSLSFLDSCNSLT
1				l		PKSTPVKTLRFS\PSQ\FLNFWN
l						KQDTLELESPSLTSTPVCSQKV
l				1		VVTTPLHRDKTPLHQKHAA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino neid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21445	51813	A	21573	59	2384	PRPGSRSGLCRRAGERGAVRAG GMSRRTRCEDLDELHYQDTDS DVPEQRDSKCKVKWTHEEDEQ LKALVRQFGQQDWK!LASHFP NRTDQQCQYRWLRVLNPDLVK GPWTKEEDQKVIELVKKYGTK QWTLIAKHLKGRLGKQCREW HNHLNFEVNKSCWTEEDRIIC EAHKVLGNRWAEIAKHLPRTT DNAGKNHWNETIQKRKGDTG GFLREYKD*KPPVYLPLELEDK DGLQSAQPTEQRSLLTNWPSV PPTIKEEENSEELAAATTSKE QEPIGTDLDAVRITPEPLEEFPK REDQEGSPPETD/SLPYKWVVE AVMLLIPAVVSSLYEALDLIGS) DPDAWCDLSRFDLPEPSPISDIS NNSLVQLQASHQQQILPPRQP SALVPSYTEYRLDGHTISDLSR SSRGELIPISSTEVGGSGIGTP SVLKRQRKRRVALSPYTENSTS SKRGELIPISSTEVGGSGIGTP SVLKRQRKRRVALSPYTENSTS SKRGELIPISSTEVGGSGIGTP SVLKRQRKRRVALSPYTENST SVLKRQRKRRVALSPYTENST SVLKRQRKRRVALSPYTENST SVLKRQRKRRVALSPYTENST DYPPQVCSQKVVTTPLHRIDK TPLHQKHAAFVTPDQKYSMD NTPHTIPTFFKNALEKYGPLKPL TPTPHILEEDLKEVLRSEAGIELI IEDDIRPEKQKRKPGLKRSPIKK VRKSLALDVIDEDVKLMMSTL PKSLSCRTTAPSNISSTLTLSGIK EDNSLLNQGLLAGFSPRKAAC
21446	51814	A	21574	190	889	SLPRRLESPÖRLAMARGVIAP VGES/LCRYAEVPCSPSAKRPDA DVDQRLVRSLIAVGQGVAAL AFAGRYALKRIWKPLEQVITET AKGRFOTPRSSY**GGFLNII* LRREAIGLILGVSP'SAGKAKIRT AHRREVMILESPQIKGGSP'VA AKINEAKDILETITKRLMILKD HTEGKKNEGTSKKKSPAKYS KTWSFLIFYMGFDHSLIFRPLSC ITNKMLIVLLFIIF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X-Unknown, *-Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21447	51815	A	21575	2	652	EGYIC/RHFTGSSALLTRTHITY
21447	31013	^	2.575	1	032	GVIANVAVVRINSPNS\RMLAA
						CKTLOEVTOLSOEAORIVEKLE
						KSTKPIVAAINGSCLGGGLEVAI
						SCOYRIATKORKTVLGTPEVLL
1						GALPGAGGTQRLPKMVGVPAA
						LDMMLTGRSIRADRAKKMGLV
						DQLVEPLGPGLKPPEERTIEYLE
						EVAITFAKGLADKKISPKRDKG
		1				LVEKLTAYAMTIPFVROOVY
21448	51816	c	21576	98	316	EVERETATAMITITYRQQVI
21449	51817	A	21577	35	247	
21450	51818	Ā	21578	ı	2391	LQLKMVACRAIGILSRFSAFRIL
21.100	3.010		21370			RSRGYICRNFTGSSALLTRTHIN
l						YGVKGDVAADRINSPNSK\VNT
l						LSKELHSEFSEVMNEJWASDOI
						RSAVLISSKPG\CFIAG\ADITML
						AACK\TLQ\EVTQLSQE\AQR\IV
						EKP*KSPOSLIVGCPSNGSCLGR
						RTLRLPISSPOYRIATK\DSKTVI
				1		*VPPE\VFLGGPLPGROGGHTK
						GCPKMGGVCLPAFGHECLTGR
ł				İ		SIR\ADRAK\KMGLVD\QLVGTP
						GTQGLKPPEERTIEYLEEVANTF
						AKGLADKKISPKRDKG\LVEKL
l						TA\YAMTIPFVRQQVYKKVEEK
		1				VRKQTKGLYPAPLKIIDVVKTG
		1				IEQGSDAGYLCESQKFGELVMT
		1				KESKALMGLYHGQVLCKKNKF
						GAPQKDVKHLAILGAGLMGAG
ĺ						IAQVSVDKGLKTILKDATLTAL
						DRGQQQVFKGLNDKVKKKAL
						TSF\ERDSIFSNLTGQLDYQGF*
				i		KRPDMGELKAVF\EDP*SLSHR
				i		VLKGKVGSR*FPDHWYSLPSNT
				1		SALPISEIAAVQQKT*EG*LGMH
						YF\SPVDKMQLL\EIITTEKTSKD
				ł		T\SASAVA\VGLKQGK\VIIV\VK
						DG\PGLLVTYQGVFAPMMS\EVI
						RILQEGS/VDPKKLGFPWTTSFG
						F\PVG\AATLV\DEVGCGMLAK
				1		HV\AEDLGKVFG\ERFGGGNPE
		1				L\LTQMVSKGFLG\RKSGEGLLT
						SSGRVVKRKILNSTMD\SI*ASL
21451	51819	A	21579	119	387	VEDSKEIFSSA*DYLSTHSKHVP
				Ì	1	ASHESYHVNPNLCNPVAPTSGA
	1				1	HSIV*KWPSWLGTVAHSCNPSN
						FGRPRRADCLSSRSSRPAWPTR
21452	51820	В	21580	73	3177	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21453	51821	A	21581	1399	5140	SGEPERALRGAAMEPSGTAĞA ALLALLA ALCPASRALEEKKVC QGTSNKLT QLGTFEDHFPQPS QRAMFINNCEV VLGANLEITLCER NYDLSFLKTTIQEV AGYVLIALN TVERIPLENLQIIRGNMYYENSY ALAVLFNY DANKTGLKELPMR NLQEILHGAVRFSNNPALCNVE SIQWEDIVSSDFLSNMSMDFQN HLGSCQKCDPSCPNGSICWGAG EENCQKLTKIICAQQCSGRCRG KSPSDCCHNQ
21454	51822	В	21582	82	305	
21455	51823	A	21583	122	219	YAKRIYDVYYVHTAYTCTFHA *KIRGMTQ*NW
21456	51824	A	21584	404	1228	GLAAFLARAGGRRKELPGSFR PLPQLPAGGSFRWEAMRPSGR RPPTLPMAASPAHWPRESLVLY HWYOSFSSOKVRLVIAEKGLVC EERDVSLPOSEHNEMPWFMRL NI.GEEVPVIIHRDNIIQ/CTMDQ HILTIMWERTHERERHYGALDQ HILTIMWERTHERERHYGALDQ HOAVTHGCLIHPELTTDSMIPK YATAEIRRHLANATTDLMKLD HEEBPQLSEPYLSKQKKLMAKI LEHIDDVSYLKKILGELAMVLD QIEGGAGRKRKLENE KNISVKLSENGTLKNCVVADS
21457	51825	A	21585	3	1194	KNLSVALSSENGILKNEVVADS ETDIDVYMYTRVYYYIPRENS WNDTIKLVTGATISAVGGDIDA QEBWAPPLLGIPSLSPOPEWKV RVVIPDKGLVCEERDVSLPOSE PKEPWFMRINLGEEVPUIHRD NISDVORJIDVYERTFTGEHVV ALMPEVGSLQHARVLOYRELL DALPMDAYTHGCILHPELTTDS MPKYATAEIR/SDI*PNATTDL MKLDHEEFPQLSEPYLSKQKKL MVLDQIEAELEKRKLENEGQK CEL-WLCGCAFTLADVSLGATL HRIKFLGLSKYWEDGSRPNL QSFERVQRFAFRKVLGDIHT TLLSAVIPNAFRLVKKPPSFFR ASFLMGSLGGMYYALHGTSR

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	l	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21458	51826	Α	21586	1	929	MDPSIYFLPSKREGHLQAYIRDS
						VPEDPLILIFFSASSDQRPWLKA
						PHLPALRGFRGGGAGGAOSR
						TTEDYVAWAKGNSPTSPSPRSR
						GGCSAKLSGPRRPPRRPGRLFN
l						MAASANSVSRAWRTESPEGLE
		ĺ				SLHSTSLSAISVSRPEGGAELSD
						TADTMGFGDLKSPAGLQV\PTI
						TWRTRATSRGMCHHKQMWQY
						LKPCPAHRLPTCVMPYV/GYNH
						IKSYEKEKASLPGVKKALGKYG
						PADVEDTTGSGATDSKDDDDID
						LFGSDDEEESEEAKRLRE/DTSC
						TI*IKESQKTCTCCQVFHLTRCE
21459	51827	Α	21587	1	2405	MALRVVRSVRAVLCSLHVACE
-						KVGMQIPRFCYHERLSVAGNC
						RMCLVEIEKAPKDQSMMFGND
						RSRFLEGKRAVEDKNIGPLVKT
						IMTRCIQCTRCIRFASEIAGVDD
						LGTTGRGNDMQVGTYIEKMFM
						SELSGNIIDICPVGALTSKPYAFT
						ARPWETRKTESIDVMDAVGSNI
						VVSTRTGEVMRILPRMHEDINE
						EWISDKTRFAYDGLKRQRLTEP
						MVRNEKGLLTYTSWEDALSRV
						AGMPPALALQSAEIAASARPPP
						RLGSEEPLCLAAHRLGCEEPLC
						LAASLESEERLCPAAIPPGNLRY
						VFISSAKTDKYSKLAPVEWVTV
						EKVPENVEVTLELGNRQSRDR
						VSRIPGNAIVIWFTGFKWKKTV
						TTLWFLNLAIADFIFLLFLPLYIS
						YVAMNFHWPFGIWLCKANSFT
						AQLNMFASVFFLT/GDQPGPLY
						PLDPSCLISSASNPQELSDCHYI
						HLAFGFSNWRSCPVLPGHCGV
						Q*SYSLL*QFSEA*S*PHFDQAP
		l				CSDLGEIYHWLSLPFANNEYLL
						LVSHLQGEEAKHPDLQ*AFLDN
						SGCGCGLCGLLDSLSPV*HLGA
						HHSPQ*LFPPCDAGWNPPLHWF
						GIPQ*LLEPHPLCPN**EVPSSLP
						VLSC*DTQVHTVGSQLFW\QVL
						KEAKKPMVVLGSSALQRNDGA
			1			AILAAVSSIAQKIRMTSGVTGD
						WKVMNILHRIASQVAALDLGY

SEQ ID NO:	sequence	Met hod	in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21460	51828	A	21588		2065	MLRIPVRKALVGLSKSPKGCVM TTATAASNLURVPVOGGSI MV EPGTTVLQACENIGMQIPRFCY HERLSVAGNCRMCLVEIEKAPK DSMMFGNDRSRFLEGKRAVE DKNIEPLVKTIMTRCIOCTISCIR FASEIAGVDLOGTTGRGMDMQ VGTYIEKMFMSELSGNIIDICPV GALTSKEYAFTARPWETRKTES IDVMDAVGSNIVVSTRTGEVM RILPRMHEDINEEWISDKTRFA TOLKRRQLTEPMYRSEKGLL TYTSWEDALSRVAGMLQSFQG KDVAAIAGGLVDAEALVALKD LINRVBSDTLCTEEVPFTAGA GTDLRSNYLLNTTIAGVEEAD VILLVGTNBFEAPLF-C*PFR KSWLHNDLKVALIRAVPVDL) TYTYPHLGDSPKILDDIASGK TYTYPHLGDSPKILDDIASGK TYTYPHLGDSPKILDDIASGK VAVLUGTHRGVANDHILDIASGK VAVLUGTYRGVANDHILDIASGK VAVLUGTYRGVEADHILDIASGK VALUGTYRGVEADHILDIASGK VALUGTYRGVEADHILDIASGK VALUGTYRGVEADHILDIAGK VALUGTYRGVEADHILDIA

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X-Unknown,
NO:	of peptide	hod	in USSN	location of first	eodon for last amino acid	*=Stop eodon, /=possible nucleotide
1	sequence		09/540,217	eodon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequenee		
21461	51829	A	21589	56	2352	ATRPPRGSSWCROFSRTASAAP
						GRSNMLRIPVRRALVGLSKSPK
			l			GCVRTTATAASNLIEVFVDGQS
						VMVEPGTTVLQACEKVGMQIP
						RFCYHERLSVAGNCRMCLVEIE
						KAPKVVAACAMPVMKGWNIL
						TNSEKSKKAREGVMEFLLANH
l						PLDCPICDQGGECDLQDQSMM
			i			FGNDRSRFLEGKRAVEDKNIGP
İ						LVKTIMTRCIQCTRCIRFASEIA
1						GVDDLGTTGRGNDMQVGTYIE
ŀ			ŀ			KMFMSELSGNIIDICPVGAL\TS
						KPYAFTARPWETRKTESIDVMD
						AVGSNIVVSTRTGEVMRILPRM
						HEDINEEWISDKTRFAYDGLKR
İ				i		QRLTEPMVRNEKGLLTYTSWE
						DALSRVAGMLQSFQGKDVAAI
			ľ			AGGLVDAEALVALKDLLNRVD
						SDTLCTEEVFPTAGAGTDLRSN
						YLLNTTIAGVEEADVVLLVGTN
						PRFEAPLFNAWIRKSWLHNDLK
						VALIGSPVDLTYTYDHLGDSPK
						ILQDIASGSHPFSQVLKEAKKP
						MVVLGSSALQRNDGAAILAAV
İ						SSIAQKIRMTSGVTGDWKVMNI
						LHRIASQVAALDLGYKPGVEAI
1			i			RKNPPKVLFLLGADGGCITRQ\
						DLPKDCFIIYQGHHGDVGAP\IA
l						DVILPGAAYTN\KSATYVNTEG
						*ASASIMLAVTT\PGLSREDW\KI
			ļ.			IRALSEIAGMT/LFPYDTL/DIQV
						RNQIGKKSSPNLV\RYDDIEG\A
21462	51830	Α	21590	246	761	MRLQGAIFVLLPHLGPILVWLF
l						TRDHMSGWCEGPRMLSW\CPF
1	1					LQSLICLLQTAI\YSVVG*VLVS
İ						HTWPWYPMGWEQVLYI*ITYA
						VQLTISWTVLVLFFTVHNPGLV
	1					RHTVLSSRSNVGEGETTWLQK
l	1		Í	l		HILAALLLLPYLAWLTVTSALT
		Ļ		<u> </u>		YHLWRDSLCPVHQPQPTEKSD
21463	51831	A	21591	I	1497	
21464	51832	A	21592	I	1731	L

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21465	51833	A	21593	1	6626	PRSLCFSLWAEAAVLADGGLR
1		1				RRRRLLRGTMSASFVPNGASLE
						DCHCNLFCLADLTGIKW*KYV
ł						WGGPTSAPILFPVTEEHPILSSSS
1						RCLTAHVLGVRRRDQRPERRE\
						L*IFWWGEDP\VLLTLFTMTYO
						KKKMECGRMDFPMNAVLCFS
1						KAVHNLLERCLMNRNFVRIGK
l		l	l			WFVKPYEKDEKPINKSEHLSCS
1		l				FTFFLHGDSNVCTSVEINOHOP
ŀ						VYLLSEEHITLAQQSNSPFQVIL
						CPFGLNGTLTGQAFK
21466	51834	A	21594	1263	1906	AVRGMVRNARAVLKTGGTFLS
2.100	1000	ľ.		1.00		PALEPLVAGGSGG/EFSQLGAEE
	1		'			RKAIARF/AIDHVDRRVPVLIGT
						GG/TNARETIELSOHAOOAGRT
1						ASTIDSVAHLRSMIHTVK/GAHP
						HFTVLCGYDDHLF/NTLLLGGD
	1					GAISASGNFAPQVSVNLLKAW
	l					RDGDVAKAAGYHQTASIPDQLI
						HPYESRLFKCQHVLTRGITSF*L
	ļ					LCPPGSLRRQGISTYHSLLHN
21467	51835	В	21595	113	484	
21468	51836	A	21596	300	780	KSGTNETIRRKARGGKIK\MDD
					1	LRG\PRCQ*EPWKRLLMTIMPS
						CLHLWAONTTVSILSFVDKDLL
		l		l		EPGCSVLLNHKVHAVIGVLMD
						DTDPLVTVMKVEKAPQETYAD
1	ŀ					IGGLDNOIOEIKESVELPLTHPE
	l					YYEEMGIKPPKGVHPFGPTWPR
		i				VKPFCPRO
21469	51837	Α	21597	2	840	AIEHCOSGDNPESRRGFLLOOW
	1					LGRNPALVPHPGRTGHSQPPVT
1				l	ľ	FHRHPSDCORSPAGRFKGGPSH
1					ĺ	RGOPPFHKSPPMTTASHLARC
	}				İ	ARTYHO\DSEAAINR\QINLE\LY
	Ì					ASYVY\LSMSYYFDRD\DVALK
	l	1				NF\AKYFLHQSHEER\EHC*ENL
1	1	1	l			MKACRTNEGWPNLSFODIKET
				l		KTCDD\WESGLNA\ME\CALHFE
		1		l		KKC*IKSLLEL\HKL\ATDKN*PP
1			l	l		ICVDFI*DTFTLNEQ/V*KAIKRI
1						WGDH/V*PKLWRKMGSAPNLG
1		l	l			FGEYLF*QSTPWGDSDNES
21470	51838	A	21598	3	390	
E		r -				

SEO ID	SEO ID NO-	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
1				sequence		
21471	51839	A	21599	li .	483	FOLEVTPONITLNPGFGGPVFS
214/1	31039	ı^	21399	['	463	WRDOAVLRODGVVVTINKKR
			İ			NLVVSVDDGGTFEVVLHRVWK
						GSSVHODFLGFYVLDSHRMSA
	1					RTHGLLGQFFHPIGFEVSDIHPG
						SDPTKPDATMVG\LQKDYSKDP
	i .					WHGAEVSCWFIHNNGAGLIDG
21472	61040	ļ.	21600	,	1521	AYTDYIVPDIF
21472	51840	A	21601	1	837	
21473	51842	A	21602	3	310	EVRANLSSQALRMWLDYGFVT
214/4	31842	\rac{1}{1}	21002	ľ	310	PLTSMSIRGMADQDGLKPTIDK
						PSEDSPPLEMLGPRRTFVLSALC
						PSPTHSSSNTQRLPDRVTGVDT*
		ļ		62	462	VVT*PYVLCWNLC
21475	51843	Α	21603	62	462	MPLPLPSAFVLSALQPSPTHSSS
						NTQRLPDRVTGGFSVNGQLIGN
		1				KARSPGQ\HDGTYFGRLGIANP
						ATDFQLEVTPQNITLNPGFGGP
	İ	1				VFSW\RDQAVLRQDGVVVTI\N
						KKRNLVVSVDDGGTFEVVLHR
						vwk
21476	51844	Α	21604	37	2883	SMDGAMGPRGLLLCMYLVSLL
					l .	ILQAMPALGSATGRSKSSEKRQ
		1				AVDTAVDGVFIRSLKVNCKVTS
		1				RFAHYVVTSQVVNTANEAREV
		1				AFDLEIPKTAFISDFAVTADGNA
		1			i	FIGDIKDKVTAWKQYRKAAIS*
		1				EKA\GLVRASGRTMEQFTIHLT
						VNPQSKVTFQLTYEEMLKRNH
		1				MQYEIVIKVKPKQLVHHFEIDV
						DIFEPQGISKLDAQASFLPKELA
i						AQTIKKSFSGKKTSNGSHSRRF
		_				QGHVLFRPTVSQQQ
21477	51845 51846	A	21605 21606	1	1008	
21478	51847	A	21606	1	676	IRHOGAAAOEGDAETPGSVERR
21479	51847	A	21607	'	076	GRRAGAEDGMSQAPGAQPSPP
ł						
1				1		TVYHERQRLELCA VHALNNVL OPAA\FSOEAADEICKRLAPDSR
1					İ	
1		1				LNPHRSLLGTGNYDVNVIMAA
						LQGLGLAAVWWDRRRPLVPS
						WPCPKGLG*ILN\LPSPVSLGLL
		1				SLPLRRRHLRWPCARL/VTVSY
		1				YNLDSK\LRAPEGPGGLRTE/LR
				1		GLSLAAALAQGLCEVLLVVTK
						EVEEKGSWLRTD
21480	51848	Α	21608	89	316	ELLSPLLVAPGPSDLTVTGLKSF
		1			1	SSPSLCSLNTLLAGTSRLMVA*L
1		1				YESLGQGEDLGLLTPGPEFLSIS
1		1	1	1		SYCNFM
	-	_	•			

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	scquence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
21481	51849	В	21609	1	1920	
21482	51850	Α	21610	1	1727	LPRVLGHSGHRGGLSSRRSQGL
						VSRFRLRALCGAGSDMWRLPG
						LLGRALP\RTLGP\SLWRVTPKS
						SSPDGPQTTSST\LLVPVPNLDR
						SGPHGPGTSGGPRSHGWKDAF
i						QWMSSRVSPNTLW\DAISWGTL
					ŀ	AVLALQLGR\HIHFQAFLAAGP\
			l			KRVE\HCS\WHSPL\DRFFSSP\L
						WHPCSSLRQHILPSPDGPAPRHT
1			i e			GLK/ENPRLGKE\EASAQPRNFS
1			ŀ			HNSLRGARP\QDPSEEG\PGDFG
1						FLHASSSIESEAKPAQPQPTGEK
			ŀ			EQDKSKTLSLEEAVTSIQQLFQL
		l				SVSIAFNFLGNQMDPAPRQEGT
						ENMKSGDHTAAFSYFQKAAAR
1					ŀ	GYSKAQYNAGLCHEHGRGTPR
1						DISK/SV*KAGLYYQLAASQGH
						SLAQYRYARCLLRDPASSWNPE
ĺ						RQRAVSLLKQAADSGLREAQA
						FLGVLFTKEPY\LDEQRAVKYL
						WLAANNGDSQSRYHLGICYEK
					1	GLGVQRNLGEALRCYQQSAAL
						GNEAAQERLRALFSMGA\ASPG
1					i	APTNLTVTGLKSFSSPSLCSLNT
1						LLAGTSR\LPH\ASSTGNLGLLC
					!	RSGHLGASLEASSRAIPPHPYP\
				ŀ		LEKN/VVRLGFG
21483	51851	Α	21611	1104	1680	LATPDVRYCYLSTYTSLPNPAR
						RFFLFSLCCKFSHSH\KTATVKK
			l			YNKSEYPWDLVKAHLQGAFTS
						NITFDISELQNKILDLNRHTQEF
						QPSLEDWTEFQEGLESLNPWTY
						LKYHSNILYVVLGVMLFCLCLL
		1				FIVCKIGWTANRRMRAAQPGL
						TFFQLIHKQGDMQGAEGPWDV
		1				TNSAFHWRLYDQTANCLS
21484	51852	A	21612	364	824	LCIILFKQLSTWRTGCAQPTKR
1	1	1	1		l	GYTELQTEGPMLKSMFLWLGE
1	1	1	l		l	QVQILQL\HSNCIVILTTLV/FCV
	l	1		l	l	TNLE*FIVCKIGWTANQKMGA
					l '	AKPGLTFFLLICK\QKGDM*GA
	İ				l	KGPWDVINSAFH*RM
21485	51853	C	21613	196	504	
21486	51854	Α	21614	3	142	

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
1	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21487	51855	A	21615	1178	2285	IVWLMTTGGQCRY*LSALIKL*
21487	31833	А	21013	11/8	2203	DR/WFORLCIHVIORLRPVHAH
					1	LYLQPGMEDGNSFRQMFRSTR
					1	SLHIPTRDLPLSPDTTVVLHQVY
						NVLLGLLSRAKLYVDAAVHGT
1		1			1	TKLVPYFSFMTYCLISKTEKLM
		i				FSTYFMDLWNLFQPKLSEPAIA
		i				TNHNKQALLSFWYNVCADCPE
					1	NIRLIVQNPVVTKNIAFNYILAD
						HDDQDVVLFNRGMLPAYYGIL
					'	RLCCEQSPAFTRQLASHQNIQW
					1	AFKNLTPHASQYPGAVEELFNL
						MQLFIAQRPDMREEELEDIKQF
1		l				KKTTISCYLRCLDGRSCWTTLIS
1		ŀ			1	AFRILLESDEDRLLVVFNRGLIL
1				i		MTEGKD\TFMIVCC*TTSFLIISS
						SIYYAELQSTVKNLLKH
21488	51856	Α	21616	1 .	436	
21489	51857	Α	21617	369	508	
21490	51858	Α	21618	2150	3120	DLRALALLLSVHTPKQLNPALI
						PTLQELLSKCRTCLQQRNSLQE
		1				QEAKERKTKALALWTTIITFRV
1	İ	i				GGGSNTLGVTGLRVVCSAEPPK
1		l				YKC*KQN*LPTSPPNVILMTFRE
		l				VSLLACVFTDDEGATPIKRRRV
		l				SSDEEHTVDSCISDMKTETREV
		l				LTPTSTSDNETRDSSIIDPGTEQ
	1	l				DLPSPENSSVKEYRMEVPSSFSE
	1					DMSNIRSQHAEEQSNNGRYDD
		1			ŀ	CKEFKDLH\CSKDSTLA\EEESE\
		1			ľ	FPSTSISAVLSDLADLRSCDGQA
		1				LPSQDPEVALSLSCGHSRGLFS
		1				HMQQHDILDTLCRTIESTIHVVT
						RISGKGNQAAS
21491	51859	Α	21619	2	4049	EEENGREYKFDVSSELLEWIWH
1		1			1	DNMQFLQDKNIFEHTYFGFMW
1		l				QLCSCIPSTLPDPKAVSLMTAK
1		1			1	LSTSFVLETFIHSKEKPTMLQWI
1						ELLTKQFNNSQAACEWFLDRM
1		1				ADDDWWPMQILIK\CPNQIVRQ
				1	1	MFQRLC1HV1QRLRPVHAHLYL
1		1	1	1		OPGMEDGSDDMDTSVEDIGGR
		1		1	l	SCVTRFVRTLLLIMEHGVKPHS
				1	l	KHLTEYFAFLYEFAKMGEEESO
1				1	l	FLLSLQAISTMVHFYMGTKGPE
				1		NPQVEVLSEEEGEEE
21492	51860	A	21620	58	219	
21772	15.000	1^_	2.020	1	T-:-	L

SEO ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21493	51861	A	21621	195	1187	RVPRTWLLPSFCASRSRENEGL
		1				SEFGASQTVTPSPASSVQAWEA
	1		l		1	MEPEFLYDLLQLPKGVEPPAEE
						ELSKGVCKKYLPPTSRKDPKFE
						ELOKVOOEWINATLLPEHIVVR
						SLEEDMFDGLILHHLFRKWAAL
						KLEAEDIALTATSQKHKLTVVL
						EAVNRS\CSWRSGRPSGA/WEST
						WNKDLLSTLHLLVALAKRFOP
						DLSLP/D/HTNVQVEVITIEVAA
		l	İ			NFVNQKLDRLGLSVQNLDTQV
	1	1				GTGVILLLLIGQLEGFFLHLKEF
		1				YLTPNSPAEMVSFVTLALELL/I
		l				GRGPAOLPC/LALKVSAT/MDA
	1					KSTLRVLYGLFCKHTQKAHRD
						RTPHGAPN
21494	51862	A	21622	96	1350	AAGLLPPGLVPEDPRRTRNLLP
21494	31802	l^	21022	20	1550	FGIOGPPFALSRPLFSCVESGWA
						WEAMEPEFLYDLLOLPKGVEPP
1		1				AEEELSKGGKKKYLPPTSRKDP
1		1	l			KFEELQKPA\VLMEWINATLLP
		J				EHIVVRSLEEDMFDGLILHHLF
1		ì				ORLAALKLEAEDIALTAT\NOK
1		l		l		HKLHSWCWRP*TGVCSWRSGR
		l				PSGA/WESIFNKDLLSTLHLLEA
		1				LAKRFOPDLSLPTNVQVEVITIE
		l		l		STKSGLKSEKLEEQLTEYSTDK
		1				DEPPKDVFDELFKLAPEK\LNA
						VKEAIVNFVNQKLDRLGLSVQ
		1				NLDTOFADGVILLLLIGQLEGFF
		l				LHLKEFYLTPNSPAEMLHNVTL
		l				ALELL/IGRGPAQLPC/LALK/TI
		l				VNKDAKSTLRVLYGLFCKHTH
		l				KAHRDRTPPWSPELTLTASKAO
		l				SLPVSPAGGPEAAGCPPTVPLFP
21495	51863	A	21623	1	87	JEI VOI AGGERANGETT I VPLFP
21495	51864	A	21624	45	277	
21497	51865	Ā	21625	171	511	GKFRYSPALHSWATRLRTSTAA
2.45		Γ.	1.023	l	l*	GHCCMNSSQNKLSSKSWAMTR
		l				HALNVKRFTIFOSHOCSLSKKV
		l				NLSLFQQGAERLPSQELTHLLL
		1				OEVRCE*RDFPPEEATWTGLPV
		1	l			LPSO
21498	51866	A	21626	276	387	LISQ
21498	51867		21626	1	218	
41499	121901	Α	121021	l'	Z10	

PVRSVCGSKLL EMVVSCVIKH FOYQEHAEEV	ucleotide insertion) FLVDLGFRSVC PWDQKLPKKK QREVIQPDVME .NLVDALQSLIN 'DLLCKIMGETF QNKMKELELLC
	FLVDLGFRSVC DWDQKLPKKKK QREVIQPDVME NLVDALQSLIN 'DLLCKIMGETF QNKMKELELLC
21500 51868 A 21628 139 9009 ESSEDVSGGLP VSLFHVKNPVC PVRSYCGSKLL EMVVSCVIKHL FQYGEHAEEV KKLNAMERQL	DWDQKLPKKKK QREVIQPDVME NLVDALQSLIN DLLCKIMGETF QNKMKELELLC
VSLFHVKNPVÇ PVRSYCGSKLL EMVVSCVIKHI FQYQEEHAEE KKLNAMERQL	OWDQKLPKKKK QREVIQPDVME NLVDALQSLIN DLLCKIMGETF QNKMKELELLC
VSLFHVKNPVÇ PVRSYCGSKLL EMVVSCVIKHI FQYQEEHAEE KKLNAMERQL	OWDQKLPKKKK QREVIQPDVME NLVDALQSLIN DLLCKIMGETF QNKMKELELLC
PVRSYCGSKLL EMVVSCVIKHI FQYGEHAEEV KKLNAMERQL	QREVIQPDVME NLVDALQSLIN DLLCKIMGETF QNKMKELELLC
EMVVSCVIKHL FQYQEHAEEY KKLNAMERQL	NLVDALQSLIN DLLCKIMGETF QNKMKELELLC
FQYQEEHAEEY KKLNAMERQL	DLLCKIMGETF QNKMKELELLC
KKLNAMERQL	QNKMKELELLC
KFLQEVNSLIQI	
	LLHVTIAAQSG
	PACKSASETKV
	RSMSAPSDLEMI
GNEDLEFTRAN	.QRR
21501 51869 A 21629 1697 2056	
	NRTKSTPGYRA
/RPAAATARISA	
	TLWALIPRITLR
	MQKDYRDAID
	KRLGFWRYKE
	LIGFYYTDPKN
	TRVGDVFLAFA
LFILYNELGTLY	
	WATLMLLGGA
	WLADAMAGPT
	VTAGVYLIART
	HLVGIVGAVTL
LLAGFAALVQT	DIKRVLAYST
MSQIWLRCSSR	LACRHGCGGSL
ECLQHEGIPYSI	RMGRPHTTSAL
RRFTSEFGMGS	ACFTLGYFFMY
KQAVILLLMLF	TASVSAACTLPI
AIDHGTPGPAE	LLTVALRYNLS
SYDAAYLELAL	RLEIPIAKGSPN
FAFRRAATGNE	GIKMHFLRNK
GILWI	
21503 51871 B 21631 1 1440	
	HQVPSSKRVPT
	HSGQSKPTKRY
NHAYEI*PRIKV	/FIPDAGC
21505 51873 A 21633 8 136	
	PHT/QP/DH*NQ
	VPATHLRQRLA
AA	
	PADCGEQSVCG
YSEPVPEYACF	
	THV*SQSEHAA
GSVLWSYRYRO	
	ISPRCWPEYQS
RSWCRLFPSPES	SAG

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codun, /=possible nucleotide
į	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
21508	51876	A	21636	1	3735	MAEASVFQTVDPWRPGFATIPD
21000						FLKERYDKTTRIIIDFCFLIATGV
l				i		CFLPIVLYSGALALNSLFHVGES
İ						LQISHGAAIWLLVILLGLAGILY
				1		AVIGGLRAMAVADSINGIGLVI
1						GGLMVPVFGLIAMGKGSFMQG
						IEOLTTVHAEKLNSIGGPTDPLP
				1		IGAAFTGLILVNTFYWCTNQGI
1						VQRTLASKSLAEGQKGALLTA
						VLKMLDPLGLKPDLLAYNTAL
		l				RALIPQRLIAFDDAVRSTLKEEE
		1				KLVNSSDWGY
21509	51877	Α	21637	840	1064	WSVENYIIRRGYGGHIPLPAASP
1						AVAAQWCDAGR*VPPAARRW
1						HRHQVYLTYLITLDRGLSRARF
1	1					CIPSAHCSAY
21510	51878	Α	21638	979	1409	RLVVDIFHDNRHAFPRRLVSDA
		1				AAHNACTQHRGLFRGFNVFGE
		1				FLRFAFYILIVKENADQCAGFV
						GMRQRDKTFVFQV*GFFTTKT
		1)	GRSFNGFYCGDGGRIMF/LPLFV
		ı				RPSL*RW*SSWWLQSCSVLVVP
						ASADVLLSSRGRR
21511	51879	Α	21639	903	1397	LPTLPMMVCCTTPTSSRKHWM
						*NPSTLT/HAWVPYTNFSPIYEG
						KCGMSGARVEGKVIYETQSTH
						KLLAAFSQASMIHVKGDVNEE
		l		ŀ		TFNEAYMMHTAASPHYGIVAS
		l				TETAAAMMKGNAGKRLINGSI
1		ŀ				ERAIKFRKEIKRLRTESDGWFF
						DNAAGYIDTITLGGPS
21512	51880	В	21640	1	5305	
21513	51881	Α	21641	129	723	LITARGQVADRNLRDLLAPWV
		1				PDAPSRALPEMTLDSRVAAAV
		1				DLFVARIGHQADGRRYIPQAIA
		l		ł		QGVAAIIAEAKDEATDGEIREM
		1				HGVPDIYLSQLNELLSALAGRC
		1	1			YHEPSDNLRLVGVTGTNGKTT
1		l	İ	I		TTQLLAQWSQLLGEISAVMGT
		[VGNGLLGKKKEKAAIQYNTLC
-						KSCTLTHPKPHNESDH/IRCRC*

SEQ ID NO:	SEQ ID NO: of peptide	Met	SEQ ID NO: in USSN	Nucleotide location of first	Nucleotide location of last codon for last amino acid	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21514	51882	A	21642	1	2230	MMRTSGGTRDNESSSDDERER ENRI.SDEKSNEYANLVGGERY EPDEENPMLGFRGAGRYVSDSF ELRLCSSLEIVEKARETVALIQGI.K HDLLADDTALRALIPQRADRFP MNAVRSTLKEEEKLVNSSDWG WINAVRSTLKEEEKLVNSSDWG GETVKTSASLAAL WQVVNQIG GETVKTSASLAAL WQVVNQIG GEREYFFGNILWQTRALMDRAI GHKLAKGRPEEYLQTGDAVD SWKVIVVEPEKQLTLLFGMKAP GLGRLCFSLEDKGDYRTIDVRA FWHPHGNRAEEKERRPQFYSRR KSFIGOMALLPMSIMPPYFRRVI CPLGVARLGKFRDPYYLVCVFT CPLGVARLGKFRDPYYLVCVFT RQIFRYYTSGDFFLQINTTGGED IDDIDDIKLFVYEESYGISKESH WREAINAKAMGAMTLNVGGK RWQFKFNSEEPGNIEPYYMLEK VENQNHAKWEVINFTMGVQP DITDYTSYLLLNVGVPVP NHPMTKDEAGVWSWRTPILK GNLYEYFFNVDGVRSIDTGTA MTNPPRQVNSSMILVPGSYLDT RSVAHGDLIAITYHSNALQSER MYVWTPBGYTGMGEPLPVLY FYHGFDTGRSAIDOGRIPOIM DNLLAEGKIKPMLVVIPDTETTD AKGIIPEDFVQERRKVFYPLNA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMNDIIPLISKRFNVA KAADRELMADGRIPONLY
	1	l	l			GMNHLESFGWLATFSGVTTTT

2760

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21616	151000	<u> </u>	01642	<u> </u>	1549	MDASGHHVRGFASGMGCCRV
21515	51883	A	21643	'	1349	
			l			RRTMKRETGGGRLAGFRLVGT
			l			LGQHLGAHRSASKGHQILAAA
						RHVDRLAK\LQLA\NVSCHEVD
1						LSWPDNLPALLQDIDTVYFLVH
		l				SMGEGGDFIAQE\RQVALNVRD
1						ALREVPVKQLIFLSSLQAPPHEQ
				İ		SDHLRARQATQ\EIRSEGNVP\V
		ı				TELRAEIIVGAGS\AAL\EVM\RD
						MVYNLPVLTPPRWVRSRTTPIA
1		1				LENFLHYLVALLDHPASEHRIF
1						EA\AGPEVFSYQQQFEHFMAVS
		1				GKR\RWFDPPSPLPT\RWISVWF
		1				LNVITSVPPTTARALI\QGLKHD
		1				LLADDTALRALIPORLIAFDDA
		1				VRSTLKEEEKLVNSSDWGYDA
1		1			ŀ	QAFARWRPEYGYFAKOAGFTV
		ı				KTSASLAALWQVVNQIGGKER
		l				YFFGNILWOTRALMDRAIGHK
						LAKGRPEREYLOTGDAVDSWK
						MIVVEPEQQRTL\LFGMQAPGL
						GRL/CCFSLEDKGDY\RTID\VRA
						FWHPHGMPG/L*F*WLLMIPAH
		ļ.	21611	201		LFIFRGMAKQIARLAVPSTDLID
21516	51884	A	21644	201	363	SLRGSRTAASPCWAVPVHVPG
						HGAGEPAHHPGHQP*LPPPHPH
		_				VLLPLQPVLA
21517	51885	A	21645	3	440	PFSLPFSLGLTASLFMNTWLAIS
		1			}	SNCDGFIPASPACFCSFLLMSSA
		1				L*RTKAM*IMC*FSGLSGSKGV
		1				YIR*ASHSLS*NCAGLSSFP*MT
		l				SESLLTFVAF*APLINPSKRASLS
		1		1		RFSLCISSLSCGSNWGSVPGNW
						VLPYSWGF
21518	51886	Α	21646	359	543	VVTPDSGSSH*KANSFCLSGAN
		l				LMLKKASFRSKQVNQLSSAGS
						NPSNMYGLGTVGCKVTVA
21519	51887	Α	21647	2	582	
21520	51888	A	21648	3	574	
21521	51889	Α	21649	1	195	LCVFFVLVSFFLSPLDSQLAVV
1	1	1		1		C*FDGTGIGMYLTSAVSPPPRN
1	1	1				GVVASVMYAVVTPMLNLFICS
21522	51890	A	21650	2	457	
21523	51891	A	21651	21	545	PPCTSLRPLHAFSGKMTHLNRG
1		1		1		TLSLLDSQLHNLIALQMTCFKD
		1	l			VEIPNFFWEPSVTPSHRNINMYF
1	l	1	I			PAAVFGFLPISGTLFSYCKIVSSI
1	l	1	1	I		LRVSSSGGKYK/AFTTCGSHLS
	1	1				
1		l	1	I		VVC*FYGTGVGGYLGSDVSSSP
1		l	i			RKRAVASVMYTVVTPMLNPFI
	I	1	L			YSLRNRDMKSVLRRPHSSAV

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nueleotide
	sequence	1	09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
		1		sequence		
21524	51892	A	21652	899	1039	LWTSSLTAESSPMRAA*LRETSI
1		1				VSAASRAFSAALSSSALRAFSA
		1				С
21525	51893	Α	21653	804	1390	QGTIILKVLRHLRWTWIPSRASL
l		1				RTGYCFCLTGWTPGLTSISTGA
1		i				WLTANPGGLSSAHTLGHRLAR
l		1				AGLISWPGSVKKSLHSSSRGSIR
1					1	VIMTPVPGNFSSKEPCSVKEIVA
1		1				LSLLSKSLPNKGKGQSGMYKN*
		l				*ITLCPPIVQVWGKQKACFAET
		ı				PMAPMMSIVFLDKGATEAVTT
		1		1	1	ECSALVSTRKSMSLPPTV
21526	51894	Α	21654	84	730	HLSDSKSQVRYQPSADLSFLLG
		1			1	HYNPQSSRRVLSVLDSQLHNLI
		l			İ	ALQVTCFKDVEIPNFFCDPSQLP
		1		!		HLACCDTFTNKIIMYFPAAIFGF
1		ŀ		1		LPISGTLFSYSRIVSSILRVSSSG
				1	1	GKYKAFSTCGSHLSVVC*VYGT
1		ı				GVGGYLSSDDVSSSPRKAAVAS
1						VMYTVITSMLNPFIYSLRNRDIK
		1		1		GVLRQPHGSTVQFQYLLICSIPF
						VVWVKKGSKVK
21527	51895	Α	21655	1049	1979	
21528	51896	A	21656	2244	2901	LRCLSLPFLEAWKRDMLLSVM
		ŀ				A\YDRFVAICHPLYHSAIMNLCS
		l		ŀ		VGFLVLLSFFFF\LSLSDSQLHN
				l		LIALQMTCFKDVEIPNFFWEPS
		ŀ		l		QLSHLACCDTFTINIIMYFPTAIF
ŀ		l		l		GFLPISGTLFSYYKIVSSILRVSS
				ŀ		SGGKYKAFSTCGSHLSVVC*FY
		l		ŀ	l	GRGVGGYLSSDVSSSPRKGAV
						AAVMYTVVTSMLNPFIYRLGN
		\perp				RDIKSVLRRPTEHCLISKK
21529	51897	Α_	21657	1	2850	

2762

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
1		1		sequence		
21530	51898	A	21658	1	1703	KKMALTSFLPAPTQLSQDQL\E
21330	51070	ľ	21030	ľ	1,705	AEEKARSQRSRQPSLVSSRREPP
						PYGY\RKAWIPRLLEDF*DRGA
						FPEIHVAQYP\LDMGRKKKMSN
1						ALAIQVDSEGKIKYDAIARQGQ
						SKDKVIYSKYTDLVPKEVMNA\
						DDP\DWQRP\DEEAHEITEKA\R
		1				VAL\EKSVSQKVA\AAMPVRAA
		1	l			*QIGPLLQYIPIHTISGKGVAIQT
1						SWS*TRRVIR\MVEMQ\KDPM\E
i	İ		ŀ			PP\RFKINKKIPRGP\PSPPAPVM
						HSPSRKMTVKEQQEW\KIPPCIS
						*LGKMAKGY\TIPL\DKRLAAD
						GEEGLODSYTLNGKFSAKLAE
						ALYIADRKAREAVEMRAQVER
		١.				KMAOKEKEKHEEKLREMAOK
İ		1				ARERRAGIKTHVEKVKYFSTVH
1		1				TEDGEARERDEIRHDRRKEROH
	1	1				DRNLSRAAPDKRSKLORNENR
		1				DISEVIALGYPNPRTSNEVQYD
		1				QRLFNQSKGMDSGFAGGEDEI
		ı				YNVYDQ\ALIGGKYMAQSIYRP
		ı				SKN\LDKDMYGDD\LEARIKTN
		1				RFVPDKGVFLVQTRRQRGREGP
	ł	1				\VQFEEDPF\GLDKF\LEESPTAM
		1				GGS\KRPSG*PAAPREHGAWKA
		1	ĺ			RKRRKE
21531	51899	Α	21659	2	1588	CLRRALPGSIESAPTAPPPPPSGE
		1				GSQAYISRLPATLIVLILERRQL
		1				LGVWRRARCCSLINLAHRRHC
		1				GMPTRESPCAILARRYEGRRSPS
						TVAQPPPPPPPIELAPSTSETPIQ
						ATRGAHPAQPSS/VPPA/PARPPE
		1	İ			RPPVPEQGPSGTHPDPTP/PGPT
		1				NAPQRPSAP\PNTTN*PTRHMH
		1				QLPDAA*TPYPAYGSDYL*AR*
		1				DATASHQASCTN/SPDAA*TPYP
		1				AYAKIERA*ENPVPSAIKIIGRSS
		1				SSGRQASPWGMA/SPHWRSWR
		1	i			MGPNGSGKRPRRAAERISCCRN
		İ				AQGRTHSQKAYIQQQPQCCVN
		1				VHLQPPD/PTPAQ/PSQTLSPPDS
		1				/PAPPLPAYPS/TQHPTAPPPTSSP
		1				MSS/RIVKPHPQHCGARPGQGK
		1				ERDETERKDAKERNRRTATPTT
			1			RHTDRLPRTAHGPPPP\PPPPPP
		1				PPPPPPPRDSPRRPRREKPEQQ
1			l			KEGGQTGRTQRKETARRGEER
1		1	1			ETGRKKTRGAPPPRPAAARRPH
1	1	1				ETAETKRRPPARQHRPPRRRPS
						DGTERTRHQLGFIMLGLLSWN

SEQ ID	SEQ ID NO:					Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first		*=Stop eodon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
21532	51900	A	21660	2	192	RVDICSTNYCWWLYPMTSGPSF
						SYV*GP*EEDVRE*MCGRDGL*
1						YLSIGVVCGFICQHHNRAQ
21533	51901	A	21661	783	2119	GSEMPVTVMLTLGEPGHFMSS
			l			LG\CWCGVEDEAAPSKQSIYIQ
						RETOVRTPMAGVSPKKAHPCE
				1		MCGPILGDILHVADHOGTHHK
						OKLHRCEAWVNILYDSGNFHR
1						RONEHIGEKPYRGSVEEALFAN
1						RCKLHVSG\SHLSSVRV/EKDFL
1						LRSGLLQQEATHTGKSNSKTEC
						VSLFHGGKSHYSCGGCMKHFS
		1				TKDILSOHERLLPTEEHFVWCE
1		l				CGKSSSKYDSFSNHOGVHTREK
						PYTCGICGKLFSSKSHLLVHQRI
		1				HTGEKPYECEVCOKFFRHKYH
		l				LIAHORVHTGERPYECSDCGKS
1		l				FTHSSTFRVHKRVHTGQKPYEC
1		1				SECGKSFAESSSLTKHRRVHTG
1		l				EKPYGCSECEKKFRQISSLRHH
1		1				QRVH/T/NERAYECSESSLIKYW
		1				RIHT*VRSCDCSKCGK/CFTQRS
			ì			ALLGYWRVHTR\KSPYK*NKFG
						QFCSHTSVFLQDYS
21534	51902	Α	21662	84	437	KMTSTQPVKFSLFASHSVPCGQ
		l				SFPGRRAFAPAMPRRRIPSSDHL
						PEPGQSHQHVNRQRWACRELI
		1				AAFLPSSYRL*LVETGGEIGQRN
1		1				RASCHSPFPAGSSPGIFQTEIGKP
						CLLP
21535	51903	A	21663	69	446	
21536	51904	Α	21664	880	1365	
21537	51905	A	21665	1705	2196	RQNQREGDDDTEDQPPRPGTQ
		1				MTELFFLIQMLCFMANALRQL
		l				VHPL/MGNVHEYFADLKMPAC
						AVSAFLCAMHRSITSMFE*DNG
						PGPADADAR\LDMRIQVFMFCA
		İ			ł .	NTLPARVLQRNKNPGQDHPET
			1			AERRAESQRIIEKGLKCIQGKGI
-		_		<u> </u>		VNSISMKEGVDAFIH
21538	51906	A	21666	1	1147	
21539	51907	Α	21667	254	557	AADEIGGIAVETVTEDAHLLCG
			1		[CTVVAIPPRICVSAGGGAGDRK
			l		1	SSVRFHQNLAQVHITRGV/VWT
		1				MTNSHIITCCATAFGTTTSPSPT
			L		l	ESTGVPCGRRNQH

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21540	51908	A	21668	557	1031	SSRNASGAVRKISRGMPDKKW
_						NMALT*HSR*ANFSPLPVSGLS
		1				RRKICTIPRAQRIR*PICADRLSV
						ASPAACGI\AYTRRYSHDGATA
		l				EKYAHLQSRFRQQCRQFHPAA
						YDESPHRNRRRKWRPTYRCHP
		1				APDHRTACLRSAFYGNAPGCV
		1				QTERSW
21541	51909	Α	21669	572	825	QARISTSFFRESLPSRHPVPRYR
						PLEAFWTPCTRGYYRFFFSPAR
						ENAEYRTL\KHWAKFLLVRASF
						PGASTLCCKSPGRTISV
21542	51910	A	21670	303	899	EDNYSGSSLYCFDDVASVQMP
						GSNGNCRR*CAGKTSG/TWRNS
						LVRQWLLTAQKKTLLHAVSNL
						PKTWAQILFSKQRVLRSPLNRH
		1				LIW*CAAVKL*LLVLYPAIRQSI
		1				SSKSIAKSLSRRYFR\LPIGDSM*
l		1				NRW*RIFTIIGMYIGTAL*SDGA
						VVCRLCENLPGSFHQRHQRCD
						AASLAGGSEPIAFSRAGRTPGP
21543	51911	Α	21671	1	1320	
21544	51912	Α	21672	99	761	IDNAPPDQTTVHAFAANSENHS
						PPQLPYETPDDADPTHQAFSRW
		ŀ				RHRPQAYSADALLRERLPPTHR
		ļ.				HRGQSPDSLTSLPYWRGRRKY
		l				RAAPALT*TPPDTLFDSPP*PAV
						PPPVAKELPVTAQRQVHNAMS
				1		ANSFVIFHPVKIRNNIVLQPAIAI
				1		QRRNGHGVTRCAAALHSRHGS
				1		LSVARHRVHLPVCRQADDKPA
		1				PAPLRPARYCLCPNQSAAVRYL
		_				R
21545	51913	Α	21673	62	680	SSRNASGAVRKISRGMPDKKW
				l		NMALT*HSR*ANFSPLPVSGLS
				1		RRKICTIPRAQRIR*PICADRLSV
						ASPAACGI\AYTRRYSHDGATA
		l		1		EKYAHLQSRFRQQCRQFHPAA
		l		1		YDESPHRNRRRKWRPTYRCHP
1		1	1			APDHRTACLRSAFYGNAPGCV
1		1		1	1	QTGPVRRSGAASASSPAVFLSG
		1	1	1		TSPWSFARTIALVRGRSRKSTRT
		_				RLWHISAHC
21546	51914	Α	21674	411	481	

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	eodon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
ĺ				sequence		
21647	51016	-	21675	402	915	DI ACKI CTTVTDDCCVCCI OAT
21547	51915	Α	210/3	402	915	RLASKLFTTVTPRGGVGELQAT TRNAAVAGIKRKRSNRGRPAEE
					İ	PELTADRGQGENEITEAATAAK
						ARRTMRPKTGNQNPDKHRTRG
		1				LQICHTFNANGNRARCSAANA
						MAATISGLSSGLSGTGWQETIR
1	ļ					PPLAAIF*SSCASNDIHLPKSFLA
						LPNGTAPLNGLPSIAS
21548	51916	A	21676	1416	1832	GSAPRQRHLAGRRPVTTRPKHV
						SHHGPQENSAHRLSHVDNESTC
	1					IVCGTLRLQHSARYFPPSLPETL
					i	FLAPVNHSV/EYNWQAAVPK*I
						Y*HQTFPGRDCQHLLFHFVRKF
						GVRESI/AQVVAVRAATSAWRY
		1				SRSSAITL
21549	51917	Α	21677	97	300	
21550	51918	Α	21678	756	1179	RRRLPSPYCRAAAGSSPSYECF
		i				AHQRSVASSRGHTGTRQFYRE
						HWFLRCIRRLSGTRLLAYHRCF
						QPHLACSGKRAVSASSTRSADV
						AAWYRV/CAKPFSSSS*VQEDL
		1				SYLRFSAS*P*TVIL*PACRKPCR
						KRRGQRRWR
21551	51919	Α	21679	3	1279	
21552	51920	Α	21680	1	2448	
21553	51921	Α	21681	317	1985	PNTPLTSKLPLLTHPLTLLTPSA
						SGWQKTTKLSCVF/PETEKYAH
			İ			ERLAHHVAQGANQYAPMTGV
						QALREAIAQKTERLYGYQPDA
	1	1				DSDITVTAGATEALYAAITALV
	1					RNGDEVICFDPSYDSYAPAIALS
}	į.		İ			GGIVKRMALQPPHFRVDWQEF
	ŀ					AALLSERTRLVILNTPHNPSATV
1			l			WQQADFAALWQAIAGHEIFVIS
	ŀ					DEVYEHINFSQQGHASVLAHPQ
	ľ					LRERAVAVSSFGKT\YHMTGW
	1		İ			KVGYCVAPAPISAEIRKVHQYL
						TFSVNTPAQLALADMLRAEPEH
						YLALPDFYROKRDILVNALNES
			ł			RLEILPCEGTYFLLVDYSALSTL
						DDVEFC*SLTQEHGVAAIPLSVF
	1		İ		ŀ	CADPFPHKLIRLIQTAAINLLVN
	į.		-			HERRANAVINVDHAEIPFLRIIL
		1				PFLRQRQHHAVIIDHHPNAELL
	ŀ	1				
1		1				FQQIFHLHRRCPRRFRHGLRHA
			İ			GHRINLTVDFQRQVDGMVRPQ
		1	1			FTVAMPAIFRFRTAAPSASVHQ
		1	1			SGVRLPYQFMALIASDNFCCW
		1				VHGGYITLAVNGNDAIGSVFNN
		l		1		QIVKCPRFTQCLGEVINTLTDLP
		L			L	HFTGQLW

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21554	51922	В	21682	160	312	
21555	51923	A	21683	80	452	
21556	51924	Α	21684	158	1980	REDTAHLPAVGFLPQNPFRAIR
						ASGEMLLPLLLLLPMCWAVEV
				1		KRPRCV\SLTNHHFYR\ESKPFT\
1				ł		CLDGSATIPFDQGQRLTYCDCK
ł				1	1	\DGS*RSQATAA\CP\NGQAFH\C
ì					1	HQTLGL*SPL**SPSKPGSNDGV
	1					CDCCDGTDE\YN\SGVI\CENTC
						KEEGPVRRRESLQQMA\EVTRE
1				1		G\FRLEEDPLFEGLGKKAREEK
}				i		QKKL\IELQAGK\KSLEDQ\VEM
1				Į		LRTVKEEAEKPEREAKEQHQK
				1		LWE\EQLAGFQGPNREQDARA
		l				ADAFKELDDDMDGTVSVTELQ
		l				THPELDTDGDGALSEAEAQALL
						SGDTQTDATSF\YDRVWAAIRD
1		1				KYRSEALPT\DLPAPSAPDLTEP
1		1				KEEQPPVPSSPTEEEEEEEEE
						EEAEEEEEEDSEVQGEQPKEA
						PPPL\SPPQPASPA\EEDKMPPYD
		l				EQTQA\FIDAAQEARNKFEEAE
						RSLKDMEESIRN\LEQEISFDFGP
						NGDV/FAYLYSQ/CARDLTTNE
						YV/YTRLCPFQVLFFAGNPNSG
						VFPTSLGHLGASW/VLGPDHGQ
						VSVAMKF*ARHGACWQGPNPL
						QHP*RFWFGKET\MVTKHPQ*P
						SRCEYLHGS**TPAA\CPEPPAL
						KQPQPKD\DHDEVLSWMGARE
21557	51925	A	21685	59	359	LLRIGNDWCIPKGITPTTHIIKLP
l		1				IGEIRQPNATLDLSQSVDNEYY
1	ļ					CLLLAKELGLNVPDAEIIKAGN/
1						GARVSGRTF*QALEC*ANGFTS
		L_				LATGGYVSDI
21558	51926	Α	21686	1	213	MSIAVTTTDPTNTGVSTTSSSSL
		1				TGSNAADLQSSFLTLLVAQLKN
						QDPTNPMENNELTSQLAQISTV
						SGIEKLNTTLGSISGQIDNSQSL
		İ				QASNLIGHGVMIPGTTVLAGTG
	1			ŀ		SEEGAVTTTTPFGVELQQAADK
						VTATITDKNGAVVRTIDIGELT
	İ			ļ		AGVHSFTWDGTLTDGSTAPNG
1		1	1	1		SYNVAISASNGGTQLVAQPLQF
1	1	1				ALVQGVIRGNSDITTFGVNMKL
1	1	1		1		AHLGRQALMGVMAVALVAGM
1	1	1				SVKSFADEGLLNKVKERGTLLV
1	1	1		1		GLEGTYPPFSFQGDDGKLTGFE
1	1	1				VEFAQQ*FAHGQQRRRFTKQFS
l	1	1	1			DFAGGAAEKPGPDQSNGKQRA
1	1					DVAIGTNQHGQRD

SEQ ID			SEQ ID NO:	Nucleotide		Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN 09/540,217	location of first	codon for last amino acid of peptide sequence	*=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
	sequence		09/540,217	codon for peptide sequence	oi peptide sequence	deterion, (=possible nucleotide insertion)
21559	51927	Α	21687	1	2339	MSGGOTEKOAOLIRDFOPDMI
						MVTPSYCLNLIEELEROLGGDA
						SGCSLRVGVFGAEPWTQAMRK
		l				EIERRLGITALDIYGLSEVMGPG
						VAMECLETTDGPTIWEDHFYPE
		1				IVNPHDGTPLADGEHGELLFTT
						LTKEALPVIRYRTRDLTRLLPGT
		1				ARTMRRMDRISGRSDDMLVLR
		l				RRHLCRPSACQLCRPPSLPATD
		l				RVLELFAOSGAOWLVILGDVL
		l				NHGPRNALPEGYAPAKVAERL
		l				NEVAHKVIAVRGNCDSEVDOM
		l				LLHFPITAPWQQVLLEKQRLFL
		1				THGHLFGPENLPALNONDVLV
	İ	1				YGHTHLPVAEORGEIFHFNPGS
		1				VSIPKGGNPASYGMLDNDVLS
		1				VIALNDQSIIAQVAINPAPEKEG
	l	1		i		FLIMEORRLASTEWVDIVNEEN
				İ		EVIAQASREOMRAQCLRHRAT
		1	ļ.		1	YIVVHDGMGKILVQRRTETKDE
		1				LPGICATSKVRKLLCKSAALLP
		1				VSELLLVLLTPVFVGSAVIGKL
						GAFAIHIDGITVKRRLVRNTVL
						OFCGRSROPLEYVSAGDTGPVL
		l				RALKRMMAMRHYMRSOTVKG
		1				VTDTRAIDEVALSVAQVEEMY
		ļ		i		RYLAIANYEDRFVIPTSHREMA
						GDAFAERNGCGFTFGDGCHGS
				ļ		DSKFNLFNSSRIDAINITEILKVI
		l				GLLMEYPDELLWECKEDALALI
						RRDAPMLTDFTHNLLNAPLLD
						KOAEWCEVFDRGRTTSLLLFEH
21560	51928	A	21688	391	631	
21561	51929	A	21689	2779	3348	LMOLHNGLPVAGLROFCOOLV
						IQRLYFFTTATAHQCTRHMCHR
						HRSLLTAHROMALCFOYVDDL
		1				HHAFADVLINNACYPLLMGEO
	l					GVFIYNGTQQLLHWVIIDSRQD
		1		l		HGFGGL*KSRIVCERRRL*SOH
			l			GOFVFRHHVPDHRIDIAFNNAL
		1	l			*TLVIREISSVPASVGVGIDFPGG
	1	1	l			AATWAGPVVIKPGQS
		L	L	L	L	MAIWAGEVVIKEGQS

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	l	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
			1	sequence		
21562	51930	Α	21690	1	1239	MPNVDVVGEMVNTMSASRSY
						QANVEVLNTEKAMSIAVTTTDP
						TNTGVSTTSSSSLTGEORRRFTK
						QFSDFAGGAAEKPRPDQSNGK
				l		QRADVAIGTNQHDAARILRKG
				l		TMTTLLNPYFGEFGGMYVPQIL
					İ	MPALRQLEEAFVSAQKDPEFQ
					ŀ	AQFNDLLKNYAGRPTALTKCQ
					1	NITAGTNTTLYLKREDLLHGGA
					1	HKTNOVLGOALLAKRMGKTEII
						AETGAGQHGVASALASALLGL
					ŀ	KCRIYMGAKDVEROSPNVFRM
		l				RLMGAEVIPVHSGSATLKDAC
		1				NEALRDWSGSYETAHYMLGTA
						AGPHPYPTIVREFORMIGEETK
						AQILEREGRLPDAVIACVGGGS
						NAIGMFADFINETN/VSVGPOH
					i	AYLNSSVRAD*VSITDDEDLOA
		l		ł	1	FKTLTASYKTTPAAAKTSLHVP
21563	51931	Α	21691	32	1778	WDARVFSHSGWVLYLIRQYCSI
				İ		SAVSSCGSTTGSACSATSWATA
		1	ĺ			TSDSVTHLRLFSYRGSDHFRMR
						RFNHFRLRFGNLNGGFYDTGHF
						FNNWRANNRFDSGGDRDLSHH
						RLHMYFFLFALLFNLYILRTYN
						WIADPDFARGQFRRRARYGQR
						HWRLGWITLVTIATTTLTTYAQ
			ŀ			VTRRAARTTRHATVVTVISIVL
						FLLFWCSLRYDWHYCILILRSTP
				•		SVLSQYPVGNELRRRRLVHLHL
						LCTYSDDDSRDPRYRQESRTRN
						GVVPVIVNIDVHRFGQTGDQH
				ĺ		GAMIIPVIFLLNVAMHERASGHI
						PNGNRTYYLSRSQPPVFALMVE
	1					LFEEDGVAVARYLDHLKMEYA
						FWMDGAESLIPNQAYRHVVRM
	į .					PDGSLLH\RYWCDCHTSCD*SW
						LEDVETAKHSGRPPNEVYRDLR
						AGAASGWDYSSR WLRDTGRLA
	1		1	l		SIRTTQFIPIDLNAFLFKLESAIA
		1	1			NISALKGEKETEALFRQKASAR
						PMREYETGEQWDKPNGWAPL
				l		QWMAIQGFKMYGDDLLGDEIA
			1	l		RSWLKTVNQFYLEQHKLIEKY
ĺ				l		HIADGVPREGGGGEYPL\QDGF
l	į .			1		GWTNGVVRRLIGLYGEP
		_				

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleatide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	
	sequence		09/540,217	eodon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
	-			sequence		
		<u> </u>				
21564	51932	A	21692	1	2514	MKTLIARHKAGEHIGICSVCSA
		1				HPLVIEAALAFDRNSTRKVLIEA
		1				TSNQVNQFGGYTGMTPADFRE
1	Į.	l				FVFTIADKVGFARERIILGGDHL
1		i				GPNCWQQENADAAMEKSVEL
1	İ			i		AVVIDLWSRAVIGWSMSPRMT
1						AQLACDALQMALWRRKRPRN
1						VIVHTDRGGQYCSADYQAQLK
1						RHNLRGSMSAKGCCYDNACVE
						SFFHSLKVECIHGEHFISREIMR
1						ATVFNYIECDYNRWRRHSWINS
						LLSQKRNTQGRIEDGRQH
21565	51933	A	21693	1	1527	EESQKKII QGIGEDGIQII
21566	51934	A	21694	792	1602	HCLSARRYELVCQPK*AFVR*L
2.500	1007	ľ.,		I'	1.002	LR*IAVLR\HLNIQHLRRSHSLR
						HGRRHTRKGERGTINIVNGTPI
					İ	HERSRNIDNRRSPSPYIRKRGAH
						TELRSDHPLLINOHWHHFAGM
		1				VAVTNGRIVAVIRHHDQAIIWL
		1				HRLNKPGKVTVNDLQTFGITCD
		l		l	ļ	VFCMTSEVGFLNVGANKRRRM
		l		l		
		1			l	GVKFVEGDIHNPLAIHQILPAH
		1			1	AIRIVDDICHLTHQHGWHACFI
					İ	QFLWHLHFFIDAIAHMHDLETV
21272		Ļ.			1404	VISARTRRIDTNKAPFFAFCGIE
21567	51935	Α	21695	1	1530	LSQQTVNTLQAGHQTIHFFMG
		ĺ				VIHGQRRPTHRRDVVIGHQWH
	1			l		CAVMSGTHSNAVIIEKTANIIGV
		ŀ		i		VFTEIKSNNAKPVLWAIESNAA
ł						ATDGEIVFDGEILKSACEINDSD
						KKIEVALGHYNAEQFRNIGERS
1		1				PKIPFTIPLVNCPMTGEIANILGS
1						KPGTIFTMLRDTGGIKPHERKR
1						AVAHLTLSEREEIRAGLSAKMS
		l				IRAIGYWR*IASPSTFSRE\VQRK
		l				GGHR\YYKAVDANIRANRMAK
		1				RPKPCLLDQNVPLRKLVLEKLE
1		1				MKWSPEQISGWLRRTKPRQKT
1						LRISPETIYKTLYFRSREALHHL
		1	1			NIQHLRRSHSLRHGRRHTRKGE
		1				RGTINIVNGTPIHERSRNIDNRR
1		1				SLGHWEGDLVSGTKNSHIATLV
		1	l	l		DRKSRYTIIVRLRGKDSVSVNQ
		1		1		ALTDKFLSLPSELRKSLTWDRG
		1	l	İ		MELARHLEFTVSTGVKVYFCD
		1				PQSPWQRGTNENTNGLIRQYFP
			l			KKTCLAQYTQHELDLVAAQLN
1	1	1	1	1		NRPRKTLKFKTPKEIIERGVALT
21568	51936	Α	21696	2	140	IITNSISRPGDPPMSDPHS*SPAS
1				1		SSAKTETKSLFNAFLV
			L			DOLLES OF THE DE

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nuclcotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21569	51937	A	21697	1817	4083	KGLLTSFHYIKTPEVPNLCVEG
21307	51757	^	210,77	1017	4003	GTRLOIWPACSSTGSGGTCWK
						APPOPPRPPTSSSPS/PAPPSEAF
	l					VLSAGAMOLEAGAYSLVIIKES
İ						KNNVGVDVIKRKHFCTAGGNV
						NQYNHYGKHCVLSCSGPASGA
						QPLYRMAQPPSPPNMAAGIPPA
						ARISSSITSPLLKPSWLHLLAHP
					1	VLQAHLTEEGLGRSHHVQRGQ
		l				CLVSKSVFTNACWEMQNVKRF
		l				TDFIPLHKNTRGPEPLCRRRNQ
		_				APNMACMQQHWQRRN
21570	51938	Α	21698	247	281	KPGKQHSMLK*SALLPSAHGPT
						S/CKEARCHPVQILPPELLF*MP
		l				KKICPPLCYLWTVKAWETTFH
						AEV
21571	51939	Α	21699	531	716	PRRLRAAPPDLGGFRLLPR/LPE
1		1				ASGCSP*SQRLFQKAPSPAPCS
						WRRSRFCVKTCVLPMGGQ
21572	51940	Α	21700	202	606	ITCLHAHVTWCQILPYLMLPAP
						LLRPLPTPLTVAGVGQSLPEIQL
						SVTLPLQPGRNQGSLESRHLVS
	1	ĺ				WAEPP*DPAVSALPLQPGRNQG
	i					SLESRHLVSWAEPP*DPAVSAL
					1	PLQPGRNQGSLESRHLVSWAEP
21573	51941	Α	21701	444	1167	FRLHGHLERGPFYFLSPLAVQS
		ŀ				SQSCLRRFTTRYHLP\YVLNRK
					ŀ	NSWHVAHIFRRHAKPEEQAPIY
						SHIHFTSDLDEVLNDPDVKLVV
	İ			1		VCTHADSHFEYAKRALEAGKN
	ŀ					VLVEKPFTPTLAQAKELFALAK
				İ		SKGLTVTPYONRRFDSCFLTAK
	ŀ					KAIESGKLGEIVEVESHFDYYRP
1		ĺ				VAETKPGLPODGAFYGLGALFT
1		1				NOOGFFKSSLLSIFADSSSSVAG
1						RSPHNLVKKRGGIVAISAFAG
21574	51942	A	21702	1	668	I.S. I.I.S TRIKINGST AIGAFAG
215/4	31742	12_	21/02	1	000	

2771

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide		Amino acid sequence (X=Unknown,
NO:	of peptide	hod		location of first		*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21575	51943	Α	21703	1	1308	MRVYMDGRLIVSTRORKVLAA
						GPMLYAATRAPAFTMSGDNLV
		i				RSHASIYMTSCHTLLGEOAGYA
						VFGALLPAITLLHLNSACCIVYV
						SCLLADAGHRDSLQQAGDKWT
						TTDSYSSSCTSETLGSACVRYA
						HSSRNHVRFALSDLDEVLNDPD
	ĺ					VKLVVVCTHADSHFEYAKRAL
						EAGKNVLVEKPFTPTLAQAKEL
1						FALAKSKGLTVTPYQNRRFDSC
						FLTAKKAIESGKLGEIVEVESHF
		l	İ			DYYRPVAETKPGLPQDGAFYG
						LGVHTMDQIISLFGRPDHVRL*
		1				HPGALRNKSPIWTNPFEAQL\FY
					i	G\DLKAIVKTSHLVKIDYPKFIV
						HGKKGSFIKYGIDQQETSLKAN
						IMPGEPGFAADDSVGVLEYVN
						DEGVTVREEMKPEMGDYGRV
						YDALYQTITHGAPNYVKESEVL
						TNLEILERGFEQASPSTVTLAK
21576	51944	A	21704	199	706	SHDVCRINADRQRDRNNRRQR
			ŀ			RSLRVYKLGNQQQNNGIGPRIL
						FHHFTQYALNFRHMRTEHGFC
	l	ľ				HPCDTVHRHDGDHTGTEDFVF/
					1	WR*TRDWFWSG*\YQRPGQQH
						KHLNNQYHRQRFAAEGWTQV
						RISTKKGDYSDCPEENPHCQPV
						AGRYHYSLVGRVSNATLARLIR
21577	51945	Α	21705	354	569	SRAVCWQVGTRLWAIFGVS*E
		l				LQRHVLVVFAGFWIVKNSRNL
	1	l			1	FLVCRAEHKRSVVKGLLRQQG
		<u> </u>			160	AGLLVPLS
21578	51946	A	21706	373	462	
21579	51947	A	21707	μ	1293	

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	*=Stop eodon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence	ļ	
		_				
21580	51948	A	21708	1	1371	MCPIEETASSFGGKPLSMVLVIQ
						MFMLLTGALIIILTKTNPASISK
						NEVFRSGMIAIVAVYGIAWMA
						ETMFAPACYGYYILPTYPSDLA
						AIQFDRSGTTHIGRFVINHSFILP
						GLIGVSVSCVFGWIFAAIKRDA
						AAGRAKENVIFHHFPFQSVKAD
į.						IATNPFKRPGGAFIRITQTFRTV
						QTFRLSAYRLDFAGDRLRISTPR
						AKMRTAFKKDHLRQRRRCIRQ
		1				RAPPARHNLVGAVALPATVAG
						VNFTFSNVPLDSSVLSSLLTDFS
1				İ		TAVGSIVMLAVIMGLMLAFDM
						GGPVNKVAYAFMLICVAQGVY
				ŀ		TVVAIAAVGICIPPLGMGLATLI
					Į.	GRKNFSAEERETGKAALVMGC
				ŀ		VGVTEGAIPFAAADPLRVIPSIM
		l				VGSVCGAVTAALVGAQCYAG
					l	WGGLIVLPVVEGKLGYIAAVA
						VGAVVT\LFV*TC*KVWRVKM
					\	GLRLMKKKTTWIWILKLI
21581	51949	A	21709	961	1116	
21582	51950	A	21710	228	388	RRGRNRYPALQ*TMFLPADGP
						ARCLSRQAAILKESVLPK*GRP
		Ì			1	DVVFSPAYPY
21583	51951	A	21711	1168	1851	LHRTGQRPAAQRTETHHPFFNH
		Γ.				FARLOVDTVVINHHOHTVAFO
		1				NRTFRSEI*RNNVDIFOPDVLPD
				ŀ		ILLGPVREREDADAFAFVNLPV
						VVVPQLRALIFRIPAMEAVTER
						VNSLFSAGFLFVTARTTEGGIKT
	1					VFVQRLFQAFSFHNIGMFRAAV
1	-					HEWINPHRHAFRVFMHQOFAA
				1		VGFSSTIAELIHLAEFPAGIDMQ
		1		1		ORERORTWIKKLAROMOHDAG
				1		IFTDRVEH
21584	51952	A	21712	l .	2653	II IDKVLII
	51952	B	21712	632	709	
21585	21933	B	21/13	032	709	

SEO ID	SEQ ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21586	51954	Ā	21714	li .	I214	MHDOOVIDAYHPDLRRTRAAS
ĺ				l	l	QSIIPVDTKLAAGITRFFPQFND
						RFEAIAVRVPTINVTAIDLSVTV
					l	KKPVKTDVGGAGTVKLNRCQI
	ľ					ARISRODVITPPGCVFEKALTLL
						IASGRNDTLARQNNHTKESLVE
						KPFRKILVIKMRYHGDMLLTTP
						VISTLKQNYPDAKIDMLLYQDT
	ŀ					IPILSENPEINALYGISNKGAGTF
		1				DKIKNVLSLIKTLRANNYDLVI
		l				NLTDQWMVALLVRCLPARMKI
ļ					ł	SQLYGHRQHGIWKKSFTHLAPI
		1				HGTHIVERNLSVLEPLGITDFYT
						DTTMSYAEDCWKKMRRELDA
l						LGVKDHYVVIQPTARQIFKCRD
						NDIISKVICMIRGSPTEGRWSVF
						FFYPADFTFVCPTELGD/GC*PL
						RRTAETGRRRIRSIYRYSLHPQS
21587	51955	Α	21715	25	1086	
21588	51956	Α	21716	1	1113	
21589	51957	Α	21717	80	430	RWLATHYLTVKLSLLPNLAVT
	İ			į		CQPKREQNITSNESTDC*VIVTS
						TKSDSLYTVGMLALSVRAIRCP
						LYLLTGLIFVSKNDLWYCELQS
1						HYTVVLLLFMRKRSRFQSNVQ
						RKLMTNF
21590	51958	Α	21718	1	2076	
21591	51959	Α	21719	2742	3109	VWTEGTGNASRARR/WKGNQL
						LPVSLVKRKTTLAPNTQTASPR
i						ALADSLMQLARQVSRLEKRAV
						SATQLMAKAVKGQSSLLPVSL
					1	VKKKNHPGALIRKPPLPARWPI
						LLIQLARQVSRLETGQ

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	cudon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
		1		sequence		
21592	51960	A	21720	174	1608	TAAKRKIPSASIRSIND*KY*VC
21392	31960	A	21720	174	1008	
1						KRT*CVGQLAA\ENADGTVAEY
					1	NGYHVVFALAGSPKDADDTSI
			l			YMFYQKVGDNSIDSWKNAGR
			ŀ			VLMNPLMILVKIIKLSLTLACH
						ALLDCKTLTLTELGRNLPTKAR
i			l			TKHNIKRIDRLLGNRHLHKERL
			l		1	AVYRWHASFICSGNTMPIVLVD
					ł	WSDIREQKRLMVLRASVALHG
					1	RSVTLYEKAFPLSEQCSKKAHD
			l			QFLADLASILPSNTTPLIVSDAG
						FKVPWYKSVEKLGWYWLSRV
						RGKVQYADLGAENWKPISNLH
						DMSSSHSKTLGYKRLTKSNPIS
						COILLYKSRSKGRKNORSTRTH
		ĺ	İ			CHHPSPKIYSASAKEPWVLATN
Ì						LPVEIRTPKQLVNIYSKRMQIEE
						TFRDLKSPAYGLGLRHSRTSSS
						ERFDIMLLIALMLOLTCWLAGV
						HAQKQGWDKHFQANTVRNRN
İ					!	VLSTVRLGMEVLRHSGYTITRE
						DLLVAATLLAQNLFTHGYALG
21593	51961	A	21721	1	3285	
21594	51962	Α	21722	1095	1188	
21595	51963	Α	21723	568	1263	
21596	51964	Α	21724	2	1688	
21597	51965	A	21725	1456	2046	SKGKVAIVSSHQEVRASPRRSP
						LGSEERPGPHTSRQAAGQPHPG
						TCSSVHCQGSWGLQTQNSEVIH
		l		1		DGDVEAISVGEDAAPGPRVHG
						ADLGQEEEAFR*VVMGGLPDR
						DSALAPVPEPMHRGWAVRAAE
					1	GAVQNDPVGGSERSWGAGSHS
						OPFSHRPAPHTRGLAQAQTEAA
	1					GEGAVPEVHRGAVLAGVRAPG
						WAQP
21598	51966	A	21726	335	595	AGLFKSRKVSSICIRFE*ILTSCL
1				ĺ		GVRISTGKLVARIHGSFADAE*I
		1		[L\WTGGDNESVS/MR*FFRPLER
		1		[DLYNRIWHEIGLLLVSLL
21599	51967	A	21727	80	428	RWLATHYLTVKLSLLPNLAVT
	1	Γ.	[· · · · ·	[1	COPKREQNITSNESTDC*VIVTS
1		1		1		TKSDSLYTVGMLALSVRAIRCP
		1				LYLLTGLIFVSKNGLWYCELQS
		1	l			HYTVVLLLFMRKRSRFQSNVQ
			1			RKLMTNF
21600	51968	A	21728	622	1281	
21000	12.700	<u></u>	12.720		1	

SEOID	ISEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
l			İ	sequence		
21601	51969	A	21729	1066	1827	VPOAKGNNVVITSYMTNRGFF
21601	31969	A	21/29	1000	1827	EDKKATFAPSFLMNIKGNKTSV
				1		
						VKNSILEQGQLTWLQVAKRAG
ŀ						LGGGQSGRTVLRERVRIEIAST
		1	ŀ			HIALQHAIVTGDAVGMDDIPQE
			ŀ	İ		ARQYRHNQAYAYSIQGDGAED
						DDERIAFASHTIQECRSQGPGG
						YPFKIYSSRKDRIPISQSLLESHF
		l	l			TVHEETAPDLETTG*PGCKDHG
			İ			NLCC/LSSVKLRYSMYRIKAGL
						WMTHPG*RTYWV
21602	51970	A	21730	I	1326	
21603	51971	A	21731	1	1971	
21604	51972	Α	21732	1	1626	
21605	51973	A	21733	1	1810	
21606	51974	A	21734	305	442	AGLFKSRKVSSICIRFE*ILTSCL
						GVRISTGKLVARIHGSFADAE
21607	51975	В	21735	1	1938	
21608	51976	Α	21736	531	669	AGLFKSRKVSSICIRFE*ILTSCL
						GVRISTGKLVARTHGSFADAE
21609	51977	Α	21737	80	428	RWLATPYLTVKLSLLPNLAVTC
1						QPKREQNITSNESTDC*VIVTST
						KSDSLYTVGMLALSVRAIRCPL
						YLLTGLISVSKNGLWYCELQSH
	1					YTVVLLLFMRKRSRFQSNVQR
	l			l		KLMTNF
21610	51978	Α	21738	10	426	
21611	51979	Α	21739	314	451	AGLFKSRKVSSICIRFE*ILTSCL
	İ					GVRISTGKLVARTHGSFADAE
21612	51980	A	21740	1	1139	MWGIGSRTPIYNKILVYSSPEVS
						CEKPKYVKSQTSTHTGFESHKR
						YIFYLRLVGKNLHVSAMGLGK
	l			ł		SQERRKKALKSQPQQPADSFPS
	1	1				LPTVEGLTTSGEVAAGFWLSGE
	1	l				ALSSC*LLSASVHLLLACLGMG
			l			KCSCSGFWLYF
21613	51981	A	21741	306	444	AGLFKSRKVSSICIRFE*ILTSCL
		l	1			GVRISTGKLVARTHGSFADAE
						GVRISTGKLVARTHGSFADAE

SEQ ID		Met	SEQ ID NO:	Nucleotide location of first	Nucleotide location of last codon for last amino acid	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
NO:	of peptide sequence	hod	09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21614	51982	A	21742	189	1089	HHTAHCQ*CWL*S/DHGINPLRS
		1				WVGTG*V/GVRGKVQYADLGA
	l	ı				ENWKPISNLHDMSSSHSKTLGY
		ĺ				KRLTKSNPISCQILLYKSRSKGR
		1				KNQRSTRTHCHHPSPKIYSASA
		1				KEPWVLATNLPVEIRTPKQLVN
		1				IYSKRMQIEETFRDLKSPAYGL
		1				GLRHSRTSSSERFDIMLLIALML
		1				QLTCWLAGVHAQKQGWDKHF
i		1				QANTVRNRNGSLLTNWPSVPP
]	1	1				TIKEEENSEEELAAATTSKEQEP
						IGTDLDAVRTPEPLEEFPKREDQ
						EGSPPETSLPYKWVVEAANLLI
		<u> </u>				PAVGSSLSEALDLIES
21615	51983	A	21743	1	1135	
21616	51984	A	21744	80	430	RWLATPYLTVKLSLLPNLAVTO
		1				QPKREQNITSNESTDC*VIVTST
		1				KSDSLYTVGMLALSVRAIRCPL
	1					YLLTGLISVSKNGLWYCELQSH
		1				YTVVLLLFMRKRSRFQSNVQR
21/12	51005	A	01046	80	430	KLMTNF RWLATHYLTVKLSLLPNLAVT
21617	51985	A	21745	80	430	COPKREONITSNESTDC*VIVTS
		1				TKSDSLYTVGMLALSVRAIRCP
	ł	1				LYLLTGLIFVSKNDLWYCELQS
		1				HYTVVLLLFMRKRSRFQSNVQ
						RKLMTNF
21618	51986	A	21746	773	1015	AGLFKSRKVSSICIRFE*ILTSCL
21010	31900	l^	21740	1'''	1015	GVRISTGKLVARTHGSFADASF
				l .		STDLYHGTLKPASLTMSGVVLL
						GRMLARSARNWS
21619	51987	A	21747	391	527	AGLFKSRKVSSICIRFE*ILTSCL
		1				GVRISTGKLVARTHGSFADAE
21620	51988	A	21748	671	1030	AGLFKSRKVSSICIRFE*ILTSCL
				1		GVRISTGKLVARTHGSFADAE*:
		1				LGDGW*Q*VRVER*FFRPLERD
l		1		1		LYNRILACPLINT*PTPVVRLKP
		1		1		*TVWSMGPVVGTPARPIRTSGA
		1		1		cwwcw
21621	51989	Α	21749	22 I	478	AEQDCTILPVLRHFTFFKSRKVS
		1		1		SICIRFE*ILTSCLGVRISTGKLV
		1		1		ARTHGSFADDQTLFFMTLAVS
		1				GELWTPSPWRPNSIRTS
21622	51990	A	21750	590	940	RWLATHYLTVKLSLLPNLAVT
l		1			1	CQPKREQNITSNESTDC*VIVTS
l					1	TKSDSLYTVGMLALSVRAIRCP
[1	1			1	LYLLTGLIFVSKNDLWYCELQS
					1	HYTVVLLLFMRKRSRFQSNVQ
		1				RKLMTNF
21623	51991	Α	21751	473	613	AGLFKSRKVSSICIRFE*ILTSCL
		1				GVRISTGKLVARIHGSFADADT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insert
21624	51992	Α	21752	342	1459	SFLWRFRLRGGSERFCLAG
		1				SGV*NIPSASIRSIND*KY*V
		1				T*CVGQLAA\ENADGTVAE
				ŀ		GYHVVFALAGSPKDADDT:
				1		MFYQKVGDNSIDSWKNAG
						KDSDKFDANDPILKDQTQE
						GSATFTSDGKIRLFYTDYSC
						YGKQSLTTAQVNVSKSDDT
		1				NGVEDHKTIFDGDGKTYQN
		i .				QFIDEGNYTSGDNHTLRDPI
		l				EDKGHKYLVFEANTGTENG
		ı				GEESLFNKAYYGGGTNFFR
		ı				QKLQQSAKKRDAELANGA
						ELNNDYTLKKVMKPLITSN
	1	ı				DEIERANVFKMNGKWYLFT
		1				RGSKMTIDAKSTLLESTEGS
		ļ.,				PPMTATEPFLRFLKGEIAQP
21625	51993	Α	21753	2094	2201	
21626	51994	Α	21754	81	1080	HHTAHCQ*CWL*S/DHGINF
		l			l	WVGTG*V/GVRGKVQYADI
		l				ENWKPISNLHDMSSSHSKTI
		l				KRLTKSNPISCQILLYKSRSH
						KNQRSTRTHCHHPSPKIYSA
		1	l			KEPWVLATNLPVEIRTPKQI IYSKRMOIEETFRDLKSPAY
		l				GLRHSRTSSSERFDIMLLIAL
						QLTCWLAGVHAQKQEHPL
		l				ALVRRRSPAOSPHVGTGSSO
	l					GCSSQAPCMKSNNALIVILO
		1				TLDAVGIGLVMPVLPGLLRI
		1		İ		HSDSIASHYGVLLALYALM
		1				CAPVLGALSDRFGRRPVLL
		l	ŀ	İ		LGATIDYAIMATTPVLWIYE
21627	51995	A	21755	80	430	RWLATHYLTVKLSLLPNLA
	l .			1		CQPKREQNITSNESTDC*VIV
		1	1			TKSDSLYTVGMLALSVRAII
		1				LYLLTGLIFVSKNDLWYCEI
		l				HYTVVLLLFMRKRSRFQSN
		l				RKLMTNF
21628	51996	Α	21756	1	593	MGVNDLWQILEPVKQHIPL
		1				GGKTIAVDLSLWVCEAHPV
		1				MMGSVMKKHLRDFADFGT
		1				QDFRLLGQTSVDRLLQLSQG
		1				AAYPIPDDQVQSVLISMLLIA
		1	1			MLHLTCGLAGVHAQKQGW
	1	1				HFQANTVRNRNVLSTVRLG
	l			1		VLRHSGYTITREDSLVAATL
				1		QNLFTHGYVLGKL*GDLSVI
					547	

SEQ ID	SEQ ID SEQ ID NO: Met SEQ ID NO: Nucleotide				Nucleotide location of last Amino acid sequence (X=Unknown,			
NO:	of peptide sequence	hod	in USSN 09/540,217	location of first codon for peptide sequence	codon for last amino acid of peptide sequence	*=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)		
21630	51998	A	21758	719	814	AGLFKSRKVSSICIRFE*ILTSCL GVRIFNR		
21631	51999	Α	21759	1	1596			
21632	52000	А	21760	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF		
21633	52001	A	21761	1343	1480	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE		
21634	52002	Α	21762	2	151			
21635	52003	A	21763	258	396	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE		
21636	52004	Α	21764	1	3081			
21637	52005	A	21765	449	586	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE		
21638	52006	A	21766	563	2042			
21639	52007	A	21767	1001	1093			
21640	52008	Α	21768	1814	1870			
21641	52009	A	21769	2760	3723	HHTAHCOYCW-SDHGINPLES WVGTG-V/QVRGKVQYAQLGA ENWKPISNI.HDMSSSHSKTI.GY KRILTKSNPISCQILLYKSRSKGR KROPKSTRTHCHPEPKIYSASA KEPWVLATNI.PVEIRTPKQLVN IYSKRMQIEETFROLKSPAYGI. QUTCWLAGVIIAQKQGWDKHF QANTVNRNYLSTVRLGMEVL RHSGYTITREDLLVAATLLAQN LETHIGLFGPSVDAPPKRGFKR PKLPELRLQRFFGGVITPPLESY SLPSDPVHLFPRRPPRQLTASP LRARAPYESSKCDA		
21642	52010	A	21770	860	3503			
21643	52011	A	21771	4597	6030			
21644	52012	Α	21772	1513	3464	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE		
21645	52013	A	21773	1	453			

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21646	52014	A	21774	1	1526	MSSSHSKTLGYKELTKSNPISC QILLYKSRSKGRKORSTRTHC HHPSKIYSASAKEPWYLATNL PVEIRTPKQLVNIYSKRMQIEET FRDLKSPAYGLGLRISRTSSE RFDIMLLIALMLQLTCWLAGY HAQKQGWGMKHFQANTYRNRN CKMATLKEKLIAPVAEEEANS. PNNKITVYGVAGQVGMA\CAISI LGKVSWPDELALVGCFWEDK LKGGNDGSFQHGELIFFQTFKN CGQDKGLFWGPPNS*RFYSW*L AGSPVQPRGRIRLKSWYPEK WLMYFQIPLELKLVXYSP*FAS* LVVSHPVIDIPTYVT.WETKVGL PKHRYIGSGCNLDSARFRYLMA EKUGHIPSSCHGWIFWGEHG DSSVAWCWNGVNVAGVSLQE LIPPEMTDNDSENWKEVHKM VVESA YEVIKLKGYTTWAHGLS VADLIESMLKNLSRIFPVSTMV KGMYGIESMLKNLSRIFPVSTMV KGMYGIESWLKKSA DTILWIGKKKSA
21647	52015	Α	21775	2	355	
21648	52016	Α	21776	2	178	
21649	52017	Α	21777	1	888	
21650	52018	С	21778	127	255	
21651	52019	Α	21779	1	1824	
21652	52020	Α	21780	330	476	
21653	52021	A	21781	452	500	

2780

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
		1		sequence		
21654	52022	A	21782	3	1584	DAWAAVSRGDEPGWGSGSWR
21634	32022	<u> ^</u>	21/02	P	1364	LLQHWGVSCWSDPKRFSSALQ
1						GYIITDWCAPFNKRIWKREQPE
		1				ETFPNTETNGEFGK\RPAEDME
		1	l			EEQAFKRSRNT\DEMVEL\RILL\
						QSKNA\GAVIGKGGKNIKALRT
	i					DYNASVSVP\DSSVPERILCISA
						DIETIGEILKKIIPTLEEGLQLPSP
					l	TATSQLPLESDAVECLNYQHYK
		1			ŀ	GSDFDCELRLLIHQSLGREGIIG
		1	i			GQRCLKSKELRGGTLQTTIKLF
		1				QECCPHSTDRVVLIGGKPDRFV
				l		ECIKIILDLISESPIKGR\AQPYDP
						NFYGWKPMDYG\GFTMMFDD
		1	l			RRGRPVGFPMRGRGGFDRMPP
						GRGGRPMQPYRRDYDDMSPRR
						GPPPPPGRGGRGGSRARNLPL
1						PPPPPPRGGDLMAYDRRGRPGD
				i		RYDGMVGFSADETWDSAIDTW
						SPSEWQMAYEPQGGSGYDYSY
				l		AGGRGSYGDLGGPIITTQVTIPK
		1		l	İ	DLAGSIIGKGGQRIKQIRHESGA
						SIKIDEPLEGSEDRITTITGTQDQI
				l		ONAOYLLONSVKOYSGKFF
21655	52023	A	21783	211	1635	KNMETEOPEETFPNTETNGEFG
2,033	32023	ľ.	21703	r	1,000	KRPAEDMEEEQAFIRSRNTDEM
		1		l		VELRILLQSKNA\GAVI\GKGGK
						NIKALRTDYNASVSVPDSSGPE
						RINLSISADIETIGEILKKIIPTLEE
						GLQLPSPTATSQLPLESDAVECI.
					i	NYOHYKGSDFDCELRLLIHOSL
						,
		1		ł		AGGIIGVKGAKIKELRENTQTTI
						KLFQECCPHSTDRVVLIGGKPD
						RVV\ECIKIILDLISESPIKGRAQP
						YDPNFYDETYDYGGFTMMFDD
						RRGRPVGFPMRGRGGFDRMPP
						GRGGRPMPPS\RRDYDDMSPRR
						GPPPPPPGRGG/RGLGSRARNLP
		1				LPPPPPPRGGDLMAYYKRGRP\
				l		GDPYDGMVGFSADETWDSPID
	1	1	l	I	1	TWSP\SEWQMAYEPQGG\SG\Y
	l	1	1	I	1	DYSY/AQGGRGSYGDLGGPIITT
1	1	1	1	1		QVTIPKDL/ALGSIYWKKGGQR\
	1	1	1	I	l	IKQIPS*VGELSIKIDEPL\EGSED
				1		\RIITITG\TQDQIQ\NAQYLLQ\N
			l	I		SVKQYADVEGF
21656	52024	A	21784	860	1201	TISEPPALILLPIAVPSFSTTCRLP
		1	1	1		EDIIVVSAFPPLLIFCVPLLILVP
	1	1	l	I		VAMP*LLIFCVPPLIMVFVAFPA
	l	1	1	I		TSITPPLSIRVASALALVKTDIVP
1		1	1	I		LSLIIVLFAEPYAFMSK

	01/0/306/					PC1/US01/08631
SEQ ID NO:	SEQ ID NO: of peptide	Met	SEQ ID NO: in USSN	Nucleotide location of first	Nucleotide location of last codon for last amino acid	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
NO:	sequence	1100	09/540,217	coden for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
21657	52025	В	21785	1	3750	
21658	52026	A	21786	1	1350	
21659	52026	A	21787	189	1939	TAMAGRMPCAEVISGSATRPD
21039	32027	^	21/0/	109	1939	GPKALFKPIGRPHQAIRPINKPP
						AAPPKQAVTNGFMRGRVPPKT
						LTVPSESSLAPMTLVVIVVKEA
		l		i		LPPAKIFSTPVPYQPTRRAPDAE
						PLSASKTPSVYLVNFVVSPEDL
					l	RKLTVDVLPALRANTRALWON
		1				EVSAFPSFMTQATPATQPLINAL
		1				PAVAAPTEQNPQVGPVMPGVQ
		ı				GADAPVVAQNGPSRDVKLTFA
		l l		l		PIAPPPGSMVLRGLNPNGSLEFO
						MRSDEVVTKAMVQLELTPWH
				i		GYGCQCPFLPVKYLYAAIGFSV
		l				MIEALNQLAIFNRRRFLSANQT
		1				LRORTTEAVMRLLSGOKEDAE
		l				LDAETASMLVDHGNQQIFNPQ
		ı				ERRMIERVLNLNQRTVSSIMTS
		1				RHDIEHIDLNAPEEEIROLLERN
		1		1		QHTRLVVTDGDDAEDLLGVVH
		ı				VIDLLQQSLRGEPLNLRVLIRQF
		1		i		LVFPETLPLLPALEQFRNARTHI
		1				AFVVDEFGSVEGIVTLSDVTET
		1				AGNLPNEVEEIDARHDIQKNAL
		1				RSWTGN/GLLPLGDCRL*QASP
		1				TGCINRRGS\HYGYPTLYEFRK
						FLTPGTVCKRCDQRGDAMRVC
		1				VQWVFYTYILPLANE
21660	52028	A	21788	558	1563	TNNRL*K*GNN**LTNOKKSRT
		1				RWIHSRILPEAGC/GIASVGRNN
1		1				CGLWRFTPAKAISWGKIHPVFQ
		1				RQILRVLSQTLFPN/MSLGRNLC
1		i				YGLKMFGVPRAELKPRFKEALI
1		l				MVNLEGFEDRFVDQISGGQQQ
		l				RVALARALILKPKVLLFDEPLS
		l				NLDANLRRSMRDKIRELQKQF
		1				DITSLYVTHDQSEAFAVSDTVL
		l		ĺ		VMNKGHIMQIGSPQDLYRQPA
		l		ļ		SRFMASFMGDANLFPATFSDG
1		l				YVDIYGYHLPRPLHFGTQGEG
		l			1	MVGVRPEAITLSDRGEESQRCV
		l			I	IRHVAYMGPQYEVTVEWHGQE
		l			1	ILLQVNATRLQPDVGEQYYLEI
		l		I	I	HPYGMFVLADAA
21661	52029	A	21789	201	312	CSWHDRFPDWKAGTHLLARG*
						QLSLPVWLCPVLKLS
21662	52030	A	21790	925	2388	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21664	52032	Α	21792	1	1086	MEKKITGYTTVDISQWHRKEHF
	l					EAFQSPAQCTKNQTVQLDITAF
						LKTVKKNKHKFYPAFIHILARL
		l				MNAHPEFRMAMKGVPGGDSV
		1		ŀ		KNTSRVWSGNERDQKLLTENA
						LNDLIPSFLLTGQQTPALGRRVS
	i					GVIEIADGSRRRKAAALTESDY
1						RVLVGELYDEQMPPLSRLGND
						YRPTSAHPQKRRYASRLQNEFA
						GNISALADAENISRVRDVNLLL
						EVLGVDSVEKTFRVWSGNERD
1						QELLMEDALDDLIPSFLLTGQQ
1						TPAFGRRVSGVIEIADGSRRRK
				l		AAALTESDYRVLVGELDDEQM
				l		AALSRLGNDYRPTSAYERGQR
				l		YASRLQNEFAGNISALADAENI
1						SRKIIPRCINS\AKLP
21665	52033	Α	21793	1	935	MLRDLLKNVDLKGFEPDVRILL
				!		TKYSNSNGSQSPWMEEQIRDA
						WGSMVLKNVVRETDEVGKGQI
						RMRTVFEQAIDQRSSTDNEGAP
		1				VIPKHTLNTQPVEDTSLSTPAAP
Į.				1		MVDSLIARVGVMARGNAITLP
1						VCGRDVKFTLEVLRGDSVEKTS
				ł		RVWSGNERDQELLTEDALDDLI
					ŀ	PSFLLTGQQTPAFGRRVSGVIEI
-				l		ADGGSSRSKKRRRGCEGGRR/V
1						RQGCPDQKHPAAFSVSGGKIHL
		l			ì	SGRTPVEKRPRLPQPRDLGARA
				l		FAACRGSRGRPWNWLPAALRL
						HADLGCVRGGGGGWPGANPY
						PAPASSTC
21666	52034	Α	21794	181	923	QHAIVTGDAVGMHHIPQEARQ
						YRHNQAYAYSIQGDGAEDDDE
						RIVRFHTRCLTEAFEKLQCGGV
						VNQLSRRGNNQHISSTYDINRA
						DTQVRRAVNNYDIIVMSNSFN\
		1		1	i	ASRSIRCGSVGSLPSSNLPINSVS
		1	1			IRCRAR/SG/EE*CQAPASKWAL
		1				LHK*HRPFPQDRKAGECLLHEY
						EDLVPIRDTLRLFPGGRYLPRA
		1				KHVAPSEPDPEQDEQKLRFCKR
			1			HLYGQQPRSPVEIRLQHVAIAY
	L	L	L			PTHHAYD

SEQ ID	ISEO ID NO-	TMct	SEQ ID NO:	Nucleotide	Nucleotide location of tast	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21667	52035	Α	21795	178	798	IRLEPFKINVLEQITKHIEKLOCO
		1				GVVKQLSRRGNNQHISSTYDIN
	1	1				RADTOVRRAVNNYDIIVMSNSF
		1			l	N\ASRSIRCGSVGSLPSSNLPINS
					i	VSIRCRAR/SG/EE*CQAPASKW
						ALLHK*HRPFPQDRKAGECLLH
		1				EYEDLVPIRDTLRLFPGGRYLPF
		1				AKHVAPSEPDPEQDEQKLRFCK
	ŀ	1				RHLYGQQPRSPVEIRLELVAIA
						YQTHHA
21668	52036	Α	21796	499	972	
21669	52037	A	21797	3	1141	SRVKLGQSSESQVAALKTREPM
						NIATLEVLVLKGLRVCFVKVNF
						PKGPASMYPGWVPILYIHAEDP
					i	LLPFYLGEKEDVTYAIKPTCWP
					1	GLDIIPSCLALPRIETELMGKFD
					!	EGKLPTDPHLMLRLAIETVAHD
		İ				YDVIVIDSAPNLGIGTINVVCAA
						DVLIVPTPAELFDYTSALQFFD
	1					MLRPLLKNVDLKGFEPDVRILL
		ŀ				TKYSNSNGSQSPWMEEQIRDA
	i					WGSMVLKNVKEFAGNISALAD
						AENISRKIITRCINTAKLPKSVV/
						ALFSHPGELSA\GDALQKAFTD
						KEELLKQQASNLHEQKKAGVII
	I					EAEEVITLLTSVLKTSSASRTSL SSRHOFAPGATVLYKGDKMVL
						NLDRSRVPTECIEKIEAILKELE
21670	52038	A	21798	1	617	LEPASLSIPNLLLHPRGLRAITIA
21070	32038	l ^A	21/98	1	017	VFGKONTYIRLEPFKINVLEOIT
		1				KHIEKLQCGGVVKQLSRRGNN
						OHISSTYDINRADTOVRRAVNN
		1				YDIIVMSNSFN\ASRSIRCGSVGS
		1				LPSSNLPINSVSIRCRAR/SG/EE*
		1				COAPASKWALLHK*HRPFPOD
		1				RKAGECLLHEYEDLVPIRDTLR
		1				LFPGGRYLPRAKHVAPSEPILSC
21671	52039	A	21799	181	953	QHAIVTGDAVGMDDIPQEARQ
		ľ				YRHNOAYAYSIQGDGAEDDDE
						RIVRFHTRRLTFKINVLEQITKH
						EKLQCGGVVKQLSRRGNNQHI
						SSTYDINRADTOVRRAVNNYDI
		1				IVMSNSFN\ASRSIRCGSVGSLPS
						SNLPINSVSIRCRAR/SG/EE*CQ
	1					APASKWALLHK*HRPFPQDRK
1		1				AGECLLHEYEDLVPIRDTLRLFF
						GGRYLPRAKHVAPSEPDPEQDE
						QKLRFCKRHLYGQQPRSPVEIR
						LOHVAIAYOTHHAYD
21672	52040	Α	21800	I	798	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last aminn acid	*=Stop codnn, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21674	52042	Α	21802	666	1131	KGRGTYGNERDQELLT\EDALD
		1				DLIPSFLLTGQQTPAFGRRVSGV
		l			1	IEIADGSRRRKAAALTESDYRV
	ŀ	1				LVGELDDEQMAALSRLGNDYR
		1				PTSAYERGQRYASRLQNEFAG
Ì	1	l				NISALADAENISRKIITRCINTRQ
ŀ						LPKSVVGFFSHPGELSARSGDA
21675	52043	Α	21803	I	3297	
21676	52044	A	21804	I	898	
21677	52045	Α	21805	I	1977	
21678	52046	Α	21806	I	1929	
21679	52047	Α	21807	181	755	QHAIVTGDAVGMDDIPQEARQ
						YRHNQAYAYSIQGDGA\GMTM
		l				SALLDFIHGA***YIRCGSVGRL
						PSSNLPINSVSIRCRAR/SG/EE*C
	l				į.	QAPASKWALLHK*HRPFPQDR
l		İ				KAGECLLHEYEDLVPIRDTLFL
1						FPGGRYLPRAKHVAPSEPDPEQ
				i		DEQKLRFCKRHLYGQQPRSPVE
		ı				IRLQHVAIAYQTHHAYD
21680	52048	Α	21808	181	456	QHAIVTGDAVGMDDIPQEARQ
İ	l	l				YRHNQAYAYSIQGDGAEDDDE
		l				RIVRFHTRCLA*SRRAVNNYDII
		l				VMSNSFNGQSEHQVWIGGQFT
		ļ			1	FIKFAH
21681	52049	Α	21809	I	780	
21682	52050	Α	21810	1	1050	
21683	52051	Α	21811	5	735	PPAAP/MGNLLMARVGVKARG
				l		KAHYLPLLRGESVRKTSRVGSG
						NERDQELLTEDALDDLIPSFLLT
						GQQTPAFGRRVSGVIEIADGSR
				l		RRKAAALTESDYRVLVGELDD
		l			1	EQMAALSRLGNDYRPTSAYER
		ı	l			GQRYASRLQNEFAGNISALADA
		l		l		ENISRQIITRCINTAKLPKSVVAL
		1	ĺ			FSHPGELSARSGDALQKAFTEK
	l	ı		i		RTLKQQALTSEQKKRGI/YEAE
		1	1			EVSSSLSPQGRLSNRSASKDMY

SEO ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21684	52052	ĪA.	21812	i i	887	MNMNIKKIVKQATVLTFTTALL
						AGGATQAFAKENNQKAYKETK
	I	ı				AVGSGNERDQELLTEEAWNDL
						ILSFLLTGOOTPAFGRRVSGVIEI
		1				PDGSRRRKAAALPKSDYRVLV
		1				GELDDEQMAALSRLGNDYRPT
		ı				SAYERGORYASRLONEFAGNIS
	ŀ					ALADAENISRKIITRCINTAKLP
	ľ					KSVVALFSHPGELSARSGDALQ
	ŀ			1		KAFTDKEELLKQQASNLHEQK
				1		KAGVIFEAEEVITLLTSVLKTSS
				1		ASRTSLSSRHQFAPGATVLYKG
				1		DKMVLNLDRSRVPTEC/IEKIEA
						ILKELEKPAP
21685	52053	A	21813	345	921	RWRLQNLSFCSSCSGSGSEGAT
						CFARGSAYELGQRYASRLQNA
		l		1		FAGKISALADAEIFSRKII\TRCIN
				1		TAKLLKSVVALFSHPVELSARS
1		ı				GDALQKAFTDKEELLKQQASN
		1				LHEQKKAGVIFEAEEVITLFTSV
						LKTSSASRTSLSSRHQFAPGAT
		l				VLYKGDKMVLNLDRSRVPTEC
						IEKIEAILKELEKPAP
21686	52054	A	21814	1	1989	
21687	52055	Α	21815	6	311	
21688	52056	Α	21816	3	848	PGGDSVKNTSRVWSGNERDQK
ł		l				LLTENALNDLIPSFLLTGQQTPA
		l		1		LGRRVSGVIEIADGSRRRKAAA
ĺ		1				LTESDYRVLVGELYDEQMPPLS
1						RLGNDYRPTSAHPQKRRYASRL
						QNEFAGNISALADAENISRVRD
		1		1		VNLLLEVLGVDSVEKTFRVWS
ł	1	l				GNERDQELLMEDALDDLIPSFL
				1		LTGQQTPAFGRRVSGVIEIADG
l		1		1		SRRRKAAALTESDYRVLVGEL
	1			1		DDEQMAALSRLGNDYRPTSAY
l			1	1		ERGQRYASRLQNEFAGNISALA
21.000	52052	١.	21017	ļ. ——	000	DAENISRKIIPRCINS\AKLP
21689	52057	A	21817	1	969	
21690	52058	A_	21818	1	1614	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*-Stop codon, /-possible nucleotide
l	sequence	l	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
		l		sequence		
21691	52059	A	21819	1	832	MDDIPQEARQYRHNQAYAYSI
21091	32037	<u> </u> ^	21017	1'	632	OGDGAEDDDERIVRFHTRVTV
1		1				DSDTLASDAARLTCRHGLARD
		1			1	VKFTLEVLRGDSVEKTSRVWS
		1				GNERDOELLTEDALDDLIPFFLL
		1		l		TGQQTPAFGRRVSGVIEIADGS
1		l	ļ	1		
		l				RRRKAAALTESDYRVLVGELD
		l				DEQMAALSRLGNDYRPTSAYE
		l				RGQRYASRLQNEFAGNISALAD
		l		1		AENISRKIITR\CINT\AQLAKSG
		l		l		VALFSHPGELSAPSGDAL*KAF
		l	ŀ			TD*EEFL*PQGSNLY\EQKKAG\
						VIFGS*KKFSLFLTSVV
21692	52060	A	21820	678	1338	TLRQTKPDNSAEIADGSRRRKA
		l				AALTE\SDYRVLVGELDDKQM
1		1		1		AALSRLGNDYRPTSAYERGQR
1		l				YASRLQNEFAGNISALADAENI
		l				SRKIITRCINTAKLPKSVVALFS
		1				HPGELSARSGDALQKAFTDKEE
		ı				LLKQQASNLHEQKKAGVIFEAE
1		1				EVITLLTSVLKTSSASRTSLSSR
		l				HQFAPGATVLYKGDKMVLNLD
						RSRVPTECIEKIEAILKELEKPAP
21693	52061	Α	21821	lI .	1809	
21694	52062	Α	21822	2	1010	
21695	52063	Α	21823	284	2177	
21696	52064	Α	21824	1	1296	
21697	52065	В	21825	1	1044	
21698	52066	Α	21826	637	1073	IRLEPFKINVLEQITKHIEKLQCG
						GVVKQLSRRGNNQHISSTYDIN
						RADTQVRRAVNNYDIIVMSNSF
			l			N\ASRSIRCGSVGSLPSSNLPINS
					l	VSIRCRAR/SG/EE*CQAPASKW
						ALLHK*HRPFPQDRKAGECLLH
l					İ	EYEDLYPSVIH
21699	52067	Α	21827	1	2403	

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21700	52068	Α	21828	1471	3186	LPHPDMEIRGRVEQRVGYTIEQ
						NHMRDVFGTRLRRAEDVFTPV
						GVAAIKTGTTVHIVSSSSLLGG
						DHGPSRIGGLLLVCDYGPLVSS
		ŀ				SGISGPTRIVGLIISLGPGYHLCF
i 1			ŀ			RSDYRTGITDPLYIGDATIRVSL
						RVYSLPSRSRIEHVVANCGMIP
						KQQQNEKYQVPQFDQSTIKNIE
		1	ł			SAKGLDVWDSWPLQNADGTV
i 1						AEYNGYHVVFALAGSPKDADD
						TSIYMFYQKVGDNSIDSWKNA
						GRVFKDSDKFDANDPILKDQTQ
						EWSGSATFTSDGKIRLFYTDYS
						GVMARGNAITLPVCGRDVKYT
						LEVLRGDSVEKTSRVWSGNER
						DQELLTEDALDDLIPSFLLTGQ
						QTPAFGRRVSGVIEIADGSRRR
						KAAALTESDYRVLVGELDDEQ
						MAALSRLGNDYRPTSAYERGQ
				l		RYASRLQNEFAGNISALADAEN
						ISRKIITRCINTAKLPKSVVALFS
						HPGELSARSGDALQKAFTDKEE
				l		LLMQQASNLHEQKKAGVIFEA
						EEVITLLTSVAKTSSASRTSLSS
				}		RHQF\APGATV\LYKGDKMVLN
21701	52069		21829	158	926	LDMSR\VQLECLDRLHACRSTL
21701	32069	A	21829	138	926	AGPVIQNYVNTQPV/EETSYSTP AAPMVDSLIARVGVMAPGNAI
		l		1		TLPVCGRDVKFTLEVLRGDSVK
				i		KTSRVWSGNERDQELLTEDAL DDLIPSFLLTGQQTPAFGRRVSG
		l				VIEIADGSRRRKAAALTESDYR
1		l				VLVGELDDEQMAALSRLGNDY
						RPTSAYERGORYASRLONEFAG
			İ			NISALADAENISRKIITRCINTAK
			i			LPKSVVALFSHPGELSARSGDA
				i		LOKAFTDKEELLKOOGGSSRV
				1		GDNSIDSWKTRGRVL
21702	52070	В	21830	1	3774	ODINGDO WKIROKYL
	52071	В	2183 I	i	1495	
	52072	Ā	21832	556	1622	·
	52073	A	21833	1	2616	

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide scaucace	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence	1	
21706	52074	Α	21834	1412	3310	SVTSCLKVTSVCLTSAAASCRS
						VLMRSTAELQCASHTLRKRKA
						ARRLISLMMTARKARKITRRW
						RIGEAADLVGVSSQAIRDAEKA
		l	•			GRLPHPDMEIRGRVEORVGYTI
						EQINHMRDVFGTRLRRAEDVFP
						PVIGVAAHKGNDPQGTASMYH
						GWVPDLHIHAEDTLLPFYLGEK
						DDVTYAIKPTCWPGLDIIPSCLA
						LHRIETELMGKFDEAQPNLGIG
						TINVVCAADVLIVPTPAELFDY
						TSALQFFDMLRDLLKNVDLKG
						FEPDVRILLTKYSNSNGSQSPW
						MEEQIRDAWGSMVLKNVVRET
						DEVGKGQIRMRTVFEQAIDQRS
l						STDTSLSTPAAPMVDSLIARVG
						VMARGNAITLPVCGRDVKFTL
		1	ĺ			EVLRGDSVEKTSRVWSGNERD
		l				QELLTEDALDDLIPSFLLTGQQT
	ļ					PAFGRRVSGVIEIADGSRRRKA
		l				AALPE\SNYGVLVAELDDEQMP
						AYPRLGNDYRPTSAYERGQRY
		l				ATRLQNEFAG\NIS\ALADAENIS
		Ι.				\itrcintaklpksvvalfshpg
						ELSARSGDALQKAFTDKEELLK
						QQASNLHEQKKAGVIFEAEEVI
						TLLTSVLKTSSASRTSLSSRHQF
						APGATVLYKGDKMVLNLDRSR
						VPTECIEKIEAILKELEKPAP
	52075	Α	21835	783	2371	
	52076	Α	21836	3236	4718	
21709	52077	Α	21837	1	2481	

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21710	52078	A	21838	2450	3963	LLTAPITGGIGTINVVCADDVMI VPTPAELFDVTSALOFFDMLRD LLKNVDLKGFEPDVRILLTKYS NSNGSQSPWMEEQIRDAWGSM VLKNVVRETDEVGKAAPMVDS LIARVGVMARGNAITLPVCGRD VKFTLEVLRGDSVEKTSKVWS GNERDQELLTEDALDDLIPSFLL TGQQTPAFGQRIVSGVVEALDL RRKAAALTESDYRVLVGELD DEQMAALSRLGNDYRPTSAYE RGQRYASRLQNEFAGNISALAD AENISRKIITRCINTAKLPKSVV ALFSIRFGELSARSGDALQKAFT UKIEDLIKOGASNIHGAEKSW
						GCYFEAEEVITLLTSVLKTSSIA SRTSLSSRHQFAPGATVLYKGD KMVLNLDRSRVPTEYRYGVFL NVLLPATKYFOLHOPSLRNMEL NYSLASEDLVLKGLRVLLVEG NDPQGTASMYHGWVPDLHIHD EDTLLPFYLGEKDDVTYAIKPT CWPGLDIIPSCLALHRIETEYNG
21711	52079	A	21839	1573	2858	EPVFEQAIDQRSSTIDTSLSTPA A PMYDSLIARVQVMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RYWSGNERDQELLTEDALDDLI PSFLLTGQQTPAFGRRVSGVIEI ADGSRRRKAAALTESDYRVLV GELDDEDMAALSRLGNDYRFT SAYERGQRYASRLONIEFAGNIS ALADAENISQ*ICWKYFCAG*C GKYFRKIITRCINTAKLPKSVV ALFSHFØELSARSGDALQKAFT DKEELLKQQASNLHEQKKAGV ISPPEEVITLLTSEIKTSSASRTSL VKIAKRSQAPCMKSNNALIVIL GTVTLDAVGIGLVMPVLPGLIR DIVHSDSIASHYGVLLALYALM QFLCAPVLGALSDRFGRRPVLL ASLLGATIDYAIMATTPVLWIY PLVNSPSC
21712	52080	В	21840	63	368	
217[3	52081	Α	21841	189	204	SLPSGIKPQSSSKASSRIQVAPT M*SLPRQPLAWPSGHEACPQG
217[4	52082	A	21842	153	370	LIAGAFRKASGGNNIFRRPKTL* LRRQPR*PQKSTPRRNKLGHYA IIKFPLTTESAVKKIEETNTLVFT VLV

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21715	52083	Α	21843	842	1770	CTPEKCLPAVHRRNWLRNAEPI
				l		VWKRHLSPICKKRQGRATKPK
		1				RRPWYTTPPTRRVRDVALRPYS
1					l	RH/GRQPHAKKKIRMSLTFRRP
						KTLRLRRQPRYPRKSTPRRNKL
						GHYAIIKFPLTTESAVKKIEENN
						TLVFTVDVKANKHQIRQAVKK
						LYDSDVAKHTEERRHDEQNNIL
						TREAKNRNDNTRNRARTETNT
						ETOKNSGYOALISFHSYYSDTS
1						DNKAHLVSYOSGOCTYDRLG
						WNLLIRMTCRSLQHTYDIQSTQ
			}			IASCFHPVSVRVNLRLYCANYG
			1			GISAVFMPLRKELLILTRSSNSK
						VSQLRI
21716	52084	A	21844	353	605	EMAPKAKEAPAHPKAEAKAKA
						LKAKKAVLKGVRSHT/RKKKIR
						MSLTFRRPKTLRLRROPRYPRK
						STPRRNKLGHYAIIKFPLTT
21717	52085	A	21845	301	946	PGSYLKPLSWTVALSLRPGFMS
						RWPCORLTWORRSVTOASGAS
1						GASLCASRLPRDKTAPKAKEAP
ľ		l				APPKAEAKAKALKPKKAVVER
						CPHTHAKKRIRMSPTFRRPKTL
1						RLRRQPRYPRKSTPRRNKLGHY
		1				AIIK\FPLTTE\SAGKKNKKNNTP
					1	LVHCGC*RPTRHQI\RQAVKK\L
		Į.		1		YDSDV\AKVTTLICPDKEKKAY
		ł				VRLAPDYDALDVANKIGII
21718	52086	В	21846	12	115	
21719	52087	Α	21847	1397	1489	
21720	52088	Α	21848	519	747	SGSVISPIAAT*YRIFAVL*SVQ*
		l				**AGPGDLSGDGELP*SVAIQPN
		[VFIAVSSITCNWLPFGKCGSTY
						WMCQSM
21721	52089	Α	21849	185	456	QHQPLEVASQWKVCSVSVKLL
		1				SQSSDVTRVPLEGLDRLSERSG
		l			1	SLSVL*SGILWALDAASQLVSL
		l				LP*LTRYHDPRVSSL/SSTYV*SP
21722	52090	Α	21850	789	1086	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nuclcotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21723	52091	A	21851	1	766	SGRKEANY\YGSLTQAGTVSLG
						LDAEGOEVFVPFSAVLPMVAP
						NDLVFDGWDISSLNLAEAMRR
	1	1				AKVLDWGLQEQLWPHMEALR
ŀ	1	l				P/LGLAVYIPEFIAANQSARA\D
	ŀ	ŀ				N\LIPGSRAOOLEOIRRDIRDFRS
					İ	SAGLDKVIVLWTANTERFCEVI
1	ŀ	1				PGLNDTAENLLRTIELGLEVSP\
		l			ŀ	STLFVAVASILGGLCLSFNGSPO
		1				NTLVPGALELAWOHRILVGGD
		1				DFKSGOTKVKSVLVDFLIGSGL
		1			1	KTMSIVSYNHLGNNDGEN
21724	52092	A	21852	2	2122	WKSWMVFTAMKLVKAHHRLK
21724	32072	l^	21032	*	2122	LRLKGYLPVTCLEGTRNQRIAA
		1				TIRHNRARGRHOITAMSEIVRE
		l				LSQLGWDDNKIGKELGMDSDE
		l				VLRLKQINGLQELFADRQYSRA
		1		1		WTLKLAOAFSCCOORRFLLGK
		1	1			TETNOFMWEGIGAKHRORNRR
1						YAVLLROPLAKLNIIQARYPNO
	ļ.	l				HRQHAGECNPHCQAGGDIVDR
		l				CPARCFTKGDSKDGSPPQATWP
						FHNSATMTAKRLSEASQCGSK
1				l		KSILRERIIYRPSITRYPFQSTMN
1						HPLPEQTLGCIATDYGSSPSPDR
		l		l		SPGPAHYYWTDHSTANIRYQV
		l				AAEENGEYTYVERVKIPLDHGT
1		1				LLIMERATQADWQLEQIRRDIR
		l		Į.		DFRSSAGLDKVIVLWTANTERF
		1				CEVIPGLNDTAENLLRTI/D/RSV
1		1				WEVSPSTLFAVASILEGCAFLN
		l				GSPONTLVPGALELAWOHRVF
		l				
		l				VGGDDFKSGQTKVKSVLVDFLI
		l	İ			GFRLQRP/SSIVSYNHLG\NNDG
		l				ENLSAPLQFRSKEV\SRSNVVD
		l				DMVA\SNP\VLYTPGEEPDHCV
		ı				VIKYVPYVGDS*RAL\DEYTSEL
		1			1	MLGGTNTLVL\HNTC\EDSLL\A
		1				APIML\DLGAA*PSCCQRVTFLA
		1			1	LDIGTPSRRPFHPVLVPAQAFFF
		1		l	1	KGATLSPPGKP/VLVNAAFSAS
		l			l	AAAIENI\LRACVGLPPQNHMLL
						EHKMERPGPSLKRVWTPWLPP
		L	L			YPMLNKKGPGSRCQPMAAPVD
21725	52093	Α	21853	I	1908	
21726	52094	В	21854	11	1833	L

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide		Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21727	52095	Α	21855	1	749	MFQLMKASSGGEAACMPAGL
						MENYKHTTVLLDEAVNGLNIR
						PDGIYIDGTFGRG\LGEEGRLLA
						IDRDPQAIAV/AKTIDDPRFSIIH
		l				GPFSALGEYVAERDLIGKIDGIL
						LDLGVSSPQLDDAERGFSFMRD
						GPLDMRMDPTRGQSAAEWLQT
		ŀ				AEEADIAWVLKTYGEERFAKRI
						ARAIVERNREQPNDPELEEIEQA
						LKSSLNVLAPGGGVSIISFHSLE
						DRIVK/RFMREHQFCVVVRSGV
						GLKT*SVR
21728	52096	Α	21856	532	1418	CFASGFIGELRKNIVGFIEQDHT
						RGLVFRLTPGRTLRAESLNLVIC
		ĺ				LPMNFQPYDSDADWVITGVPF
						DMATSGRAGGRHGPAAIRQVS
						TNLAWEHNRFPWNFDMRERLN
						VVDCGDLVYAFGDAREMSEKL
						QAHAEKLLAAGKRMLSFGGDH
						FVTLPLLRAHAKHFGKMALVH
						FDAHTDTYANGCEFDHGTMFY
			Ĭ			TAPKEGLIDPNHSVQIGIRTEFD
						KDNGFTVLDACQVNDRSVDDV
						IAQVKQIVGDMP/VYLTLYNCG
	:					GPS*QFHSLRPAQSPLDRCRAR
		_				YLAPQCVPDFRTLQR
21729	52097	В	21857	64	1842	
21730	52098	A	21858	I	503	MRWLVSPIEDTGHKALLFACL
						ALHRACVSGHCLSPKCVGVDG
						RSHEMVAPGLFLDWLLDGTGV
1						WDGTSTNVEGAQEHAVLILLII TDGVISDMEETGMPWCRLPSCP
						CPSSSGRGQCGLRCHGVPGWG
1						RRMLRSHTGEEAARDIVSSFPF ESSATMSEEVYDPRSLYERLOE
						QRTGSSRTARQEAVVGSKVTV
				İ		SQPGHRQETTVLEHLVQY/FILL
1						IITDGVISDMEE/TRHAVVQASK
						LPMSIII/VGVGNADFAAMEFLD
1						GDA/GMLRSHTGEEAARDI/VQ
				i		FVPFREFRNNVRGGL*PSISI
21731	52099	A	21859	2223	2363	I VI I KEFRINIVKUUL FSISI
21/31	32099	A_	41009	14443	2303	

SEQ ID NO:	SEQ ID NO: of peptide		SEQ ID NO: in USSN	Nucleotide location of first	Nucleotide location of last codon for last amino acid	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
10.	sequence	1100	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		, i
21732	52100	A	21860	3	693	GDDGKWMLVHRTEVIKYTLDP
				i		VWKPFTVPLVSLCDGDMEKPIQ
						VMCYDYDNDGGHDFIGEFQTS
		l				MSQMCEARDSVPLE\FECINPK
						KQRKKKNYKNSGIIILRSCKINR
1		l				DYSFLDYILG\GCQLHVSPLGID
		l				F\TASNG\DPLDPSSLHYINPMG
		l				TNEYLSAIWAVGQIIQDYDSDK
						MFPALGFGAQLPPDWKVSHEF
						AINFNPTNPFCSGVDGIAQA\YS
						TCLPHIRFYGPT
21733	52101	Α	21861	1	2231	MYSQEGNQFCNRTDCQELLPPP
				\		PAPMAHIPSGGAPAAGAAPMG
						PQYCVCKVELSVSGQNLLDRD
1						VTSKSDPFCVLFTENNGRWIEY
						DRTETAINNLNPAFSKKFVLDY
						HFEEVQKLKFALFDQDKSSMR
						LDEHDFLGQFSCSLGTIVSSKKI
						TRPLLLLNDKPAGKGLITIAAQE
						LSDNRVITLSLACRRLDKKDLF
		i	ŀ			GKSDPFLEFYKPGDDGKWMLV
1			i	l		HRTEVVIKYTLDPVWKPFTVPL
į.						VSLCDGDMEKPIQVMCYDYDN
						DGGHDFIGEFQTSVF\KMCEAR
				l		DSVPLEFECINPKKQRKKKNYK
				1		NSGIIILRSCKVNQRGQARARG
						QVSGHTEGTDRALDLEPARPVF
						KSRLCHILALWPSELHLTRPQSP
1						HLWNGDINEAEHVQGYSSLTFL
1						CGGQGRHELTFQGLSWWENCH
		l				CELLPPTVGMQGAEDIGWGHP
ĺ		1				VLSGISVTVTPMINRDYSFLDYI
		ł				LGGCQLMFTVGIDFTASNGNPL
1		l				DPSSLHYINPMGTNEYLSAIWA
		l				VGQIIQDYDRPRSFLKPDPWAG
		[TEAVTGQHVMFSVYETHVEWG
						RQIGLPDVANQNTRHPVKFEFQ
		l	l			VSHEFAINFNPTNPFCSGVDGIA
		1				QAYSACLPHIRFYGPTNFSPIVN
1		l				HVARFAAQATQQRTATQYFILL
1		l	l			IITDGVISDMEETRHAVVQASK
		l				LPMSIIIVGVGNADFAAMEFLD
		l	1			GDSPHAALPTRGRRQPRDIVQF
21734	52102	A	21862	694	825	QPGLSINIEAGA VPRPFARRY W
1						GNLG*FLFLGVLRCFSSPGSPH
21735	52103	A	21863	1032	1127	FYAKAEAGDRTVA*PHKPKMF
1	1	Γ.		I	I	LSIHHRVAKI
21736	52104	В	21864	1	564	
21730	102104	0	12.004	Ľ	120.	L

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	eodon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequenee		
21737	52105	Α	21865	43	617	PIIQKVRSHTPKRAPTACTYTVS
						GSFSLPSPGFFSPFPHGTGSLSVS
						QEYLALEEWSPHISARDCTCSG
					1	LLIELPSTGIFVYGAVTLYRAPF
						QTLPVTHALIQALGCSP\FARRY
						WGNLG*FLFLGVLRCFSSPGSP
						H*PMDSVNDSVSKHT/EVSPFG
						N\PGYNGSYHLTDAYRRLARPS
						SPLT\PGHPPLYG
21738	52106	A	21866	2969	3593	
21739	52107	Α	21867	1219	1503	HFTDGQNNRQHGCGVRRQAG
						KQVVCKVEHQNQYNHRCVW*
						ESFQVRTHGTGEPVNKTRTSQA
						VSHHNQSCQVDQCVPCAVIAG
						NVFPRHNVQGQH
21740	52108	A	21868	193	378	
21741	52109	В	21869	1	1473	
21742	52110	Α	21870	3536	3926	PKMVRWLARKCWNTVSTVRC
		ĺ				FWMAMPTPVFAPCAAIKTASA
		ľ				R*MSWASSR*PNRGCVKSATLR
						QFS*VAAMK*PPVAQ*WW\LGR
						NASTAGGDSGAGRSLDDGEPTP
						CGMGLEQKRHGNPAGCVAPSR
		ļ				ws
21743	52111	Α	21871	140	901	MAMSKVKSITRESWILSTFPEW
1		ľ				GSWLNEEIEQEQVAPGTFTMW
1						WLGCTGIWLKSEGGTNVCVNL
						WCGTGKQSHGNPLMKQGQQM
						PPMAGVKKLQPNLRTTPFVLDP
		1				FAIRQIDAVLATHDHNDHIDVN
						VAAAVMQNCADDVPFIGPKTC
						VDSWIGWGVPKERCIVVKPGD
		1				VVQVTALEIHAPDAFDRTAPIT
						WLADQKRRRTVKG/MDDAPL*
		1				QVSYRPSTPPRCCYWSLLSSSV
						YYSKRPFAHGYARLCIPFMD
21744	52112	A	21872	287	392	
21745	52113	A	21873	1	492	COTH DAMESTORY OF THE
21746	52114	A	21874	569	1061	SGTVLDM/SEYSRVQIRKQPYLS
1						KGYIPVRQKTKAAWLLKAVTFI
1					1	DLTTLSGDDTSSNIQRLCYKAK
1					1	YPIREDLLKALNMHDKVAAGF
1	1			1	1	PAGQTHLKTRLEEIRLAVEDGA
1				1		TEIDVVINRSLVLTGQWEG/LYS
1				1		PVVYSALPCNI*HSRLFLPSGNA
		L	L			LLLWLWCLHS

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*-Stop codon, /-possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
			l	sequence		
21747	52115	A	21875	2	1072	ARSNIRMVTAFRSLPAGSSGAA
21/4/	32113	<u>۱</u> ^	21075	1	1072	RA\MSAHNRGTELDLSWISKIO
			ĺ			VNHPAVL\RRAEQIQARRT\VK
			ŀ			KDWOAAWLLKAVTFIDLTTLS
						GDDTSFNI*RLCYKAGYPIREDL
						LKALNMHDKGIT\TAAVCV\YP
						ARV\CDAVKGTSRPAG/CVNIPV
	ļ	l				GISRAAGF\PAG\QTH\LKTRLEE
			į			I\RLAVEDGSLQKIDV\VINRSLG
				i		A*QAQWE\ALYDEIRQF\RKAC
}			1			GEA\HLKTILA\TGELGTLTNVY
						K\ASMIAMMAGSDF\IKTSTGKE
						TVNATFPVAIVMLRAIRDFFWK
						TGNKIGFKPAGGIRSAKDSLAW
			Ì	1		
						LSLVKEELGDEWLKP\ELFRIGA
						ST\LLSDIER\QIYHSCGLGRYGS LFMDLSOCL
21748	52116	A	21876	3	221	LPMDLSQCL
21748	52117	В	21877	49	342	
21749	52118	A	21878	1	828	
21751	52119	A	21879	1362	2405	RPPWRHWDGNSSVLVHFOLHF
21751	32119	l^	210/9	1302	2403	LLRPLQTLSLGLEEELLQRGIRA
		1				RLREHGISLAAYGTIVSAELKG
		ı		i i		GSRPCAVWWPSEPGAGRCPGN
		l				SFSCGNSQCVTKVNPECDDQED
		1				CSDGSDEAHCECGLQPAWRMA
	1					GRIVGGMEASPGEFPWOASLRE
1		l				NKEHFCGAAIIN/DQPLRS*NHR
l		l				FODPTKWVAYVVRPTSAARRP
						APCGPSKKA/WISGWGYLK/EG
1		l				LP*ASPRPAMVKPEVLQKA/DW
}						ELLDOALCASLYGHSL/TDRMV
						CAGYLDGKVDSCSVLFLFRGTI
		ŀ				SFFFSEDRNLIRYVLLYSIFVVN
						CISGKPQPGPPVLRALCQHPHQI
						DAGPQYRASCWVTVPKLQGIF
21752	52120	A	21880	600	904	SVSLLDEETALPFSWDELRLSA
21/32	32120	^	21000	000	704	LLDT*AAFQEIELAFQDPQCVG
1						LLTAP/YADAAFSGSTDIAMFLL
						VPILSARKPASPRSS*TFSHLATE
						PLPASIK*AAA
21753	52121	A	21881	393	572	FLFASIK AAA
21754	52121		21882	165	432	PGMAVSYEKISKYPVEFLPAQA
21/34	22122	n	21002	105	732	NIAGHNDAPEEREPFQW*LWLL
1						LPNF*LOEKCSPTLCHFLSRRTO
						SEFPSSTAAGNLSVSLLYPCKS
21755	52123	В	21883	1	1011	SELI SSTANGINES VSELTIPCKS
41/33	24143	ם	21003	1	1011	

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
		l		sequence		
		L				
21756	52124	Α	21884	783	1234	YYRRCGAASPHGRDPVQIG*TS
		1				SQPR*SAYRN/PASVIPVARHSA
		1				RAPAILRP*VVVAERSERSIPGL
	I	l				RATPAEIRTTSAPSSAGVASSPE
		1				KPLIFTAIDSHTGSHWSDIIHVC
		1				AKKLQNYVPKLNASLLLTPSIY
		1		İ		VTRTTRSGPIPPARQ
21757	52125	A	21885	249	398	GYFDIFSYDTAIPGQSAEQDAR
		1				ED*AF*MPDRAYSOPCSSLVFP
						KGCKK
21758	52126	A	21886	309	845	CGAREERGRGCHHVHSOLRGP
		1		1	1	GPAPGQVQQPQLVPAPVVPELP
		İ			ł	GLRGLSWOARTTRARHROGOV
		1			ŀ	QDHQPDPTVHAQLRGVQLGEA
		1				PLQLHHGD*DHRAP*GYFDIFS
		1				YDTAIPGOSAEODARED*AF*M
						PDRAYSQPCSSLVFPKGCPVPG
		l				
		1				RGCAAGVQAAGAAHPPLDHPA
21759	60100	١.	21007	100/	2100	LQPLQGR
21759	52127	Α	21887	1236	2100	DLLCGRGCQGRRPRHLQPQTEL
						EAPEVPAERPGRGPAVAARSDP
		ĺ			ŀ	RAQAEDVPGYNPLSGKPAKQQ
ĺ		i			}	VHEGHHPGAPGHRRPGGAAVP
			l			AGGPHRCLPAQPARPCGGAAEP
			1			RGGPAGAH*ARGSRAAGEGQP
		1				WWPSPRLGAGPPAAPVHAAPG
				i		SHLLPGHHLPTQPSALAAAQ\PL
	İ					AEEPREQ/PGAGGPQPGSPTLRG
		1				VEVVPLPHAAGGAGAVPVGGA
						ACPTAPHPAASAPAPVLLSQLG
						TQHPPRRDPPHCSCAGIQDSGW
		1				AGPPALWSLLHVAKPAQARRP
	1	İ				CALLHPGV
21760	52128	Α	21888	1931	2185	AKAFSFFRYISRVSRNRTCLSRS
		l		l		SMRRSFDSSNADAAFSGSTDIA
				I .		MFLLVPILSARKPASPRSS*TFS
		1				HLATEPLPASIK*AAA
21761	52129	A	21889	1254	1760	
21762	52130	A	21890	1		SIRRPKRARPIRIKKIPEOOG/PO
		1				PAVLPVQTVATRDRELPOMP/P
		I	l	1		VGPETLKRDPPVRAMTIPATAA
		l				VYKPYWGATPLPIA\KPSPAG*O
			l			*SRRFSKGYFGFD
21763	52131	A	21891	195	545	HSPGSFYSRRDAQSPAPAIRAA
21/03	J2131	l^	21071	123	J-M-J	
		1				V*AEVQ*TPLCHDRITHFPEDW
		l				RGWQRS*F*PAACRVAGSLPVP
						VSPQIQHPYCRSSAQYLPCGAG
		1				LPLPGFDRLCPRSLFQGLAVTG
			l	L		GSCGPS

	E nucleotide insertion) LATAEYRHHQRA GVAFYPIKERYR PRRWSASRNRRPS ISSTPFPPAPPLRR MLRLTGAGIAEE ILHELTERPHPFP
	LATAEYRHHQRA GVAFYPIKERYR PRRWSASRNRRPS SSTPFPPAPLRR MLRLTGAGIAEE
21764 52132 A 21892 825 1299 YSCRTEHPPR ADAGR*RHA QPEPAFSYQ/! R*RMRRFPA! KRVASLIGGE RMIAPQLPE	GVAFYPIKERYR PRRWSASRNRRPS NSSTPFPPAPPLRR MLRLTGAGIAEE ILHELTERPHPFP
ADAGR*RHA QPEPAFSYQ/I R*RMRFPAI KRYASLIGGE RMIAPQLPEC	GVAFYPIKERYR PRRWSASRNRRPS NSSTPFPPAPPLRR MLRLTGAGIAEE ILHELTERPHPFP
QPEPAFSYQ/I R*RMRRFPA1 KRVASLIGGF RMIAPQLPEC	PRRWSASRNRRPS NSSTPFPPAPPLRR MLRLTGAGIAEE NLHELTERPHPFP
R*RMRRPA1 KRVASLIGG RMIAPQLPEC	SSTPFPPAPPLRR MLRLTGAGIAEE ILHELTERPHPFP
KRVASLIGGF RMIAPQLPEC	MLRLTGAGIAEE
RMIAPQLPEC	ILHELTERPHPFP
LGIDLILTCGI	COLL AIDD TTHAC
	CKLLAIPKIITIVE
21765 52133 A 21893 1460 1810 RATHVLTWV	RGTPKRAEMILG
SSRSMSAAA	/TVLISPATAQRW
ITRAP*PSPIR:	SPSVSRLTATRPSS
ITKARALSPM	AAPALRSTVTTP
PRITVEKPLLI	MEKIPRVPKSRAI
SAL	
21766 52134 A 21894 231 704 QSQKPDTRG	RLFVAKAPPCVQR
HKVRWLRLV	MITSAHYLPLRR*
*PAHPASGGO	CPNRAKYTQRPA
E*ISYRPD*EA	VR*SRAPAKVTQ
SNPASRVALE	RPAPRAVHQATII
PVDESTLLPA	PLAVSARQKVRQ
AIPLRDSPVR	RPTLDVRHRATG
21767 52135 A 21895 1291 1925 RQLLRWSNR	*IAR*SLTQPARRF
PAYHYAHPA	AAAAPGDPLGAD
LQLCARHYH	RQRHCVPRHAGY
PRSDGLHPQF	RGRWRIRCSDCL
RVPF	
	IDVVYWVRRIKR
	RMSYRELYKPDE
	VE*NGRHRQYGR
	KLSYLCWHLPQR
	VRSLPECA*GSLR
	TV*TTCWTPSPN
LSVAPISLLLV	
	/KRPTH*GS*KAR
	KKAESLSSFPEKS
	LSS**ASQGCGDT
	GSQQA*QVCGR*
KAY**DLSRE	
	PSPSAKPSNRSPSP
	NSLHSC*P*GNL
	TPPPPPAYTLVLF
KLANPQLPEE	
	RKRTQTAPTHAT
	DRGNRREPEKTE
	EPGRRGQTQQ\EP
APRHQPPKPC	GEPTTPQKQ

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hud	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
	İ	l		sequence		
21772	52140	A	21900	11	2595	MESHTVTDYNFGRLLNESFAN
21772	52140	Ι^	21900	l'	2595	CETDRNYLGIFKCGFWLSGTRK
						SAFLTKSQVTLTRPVDHTLRNE
1						VLGSTKYQVPGYRRKTNTNLE
						ESNVLIGYDVAPGGGKQIDGKK
						AEGRELMVPVAGRPLCRSSSM
			ŀ			ELLLLLPLHIPREQMLLADAYW
						NLHQSCQSKTSPDTAKCPLDRC
		l				PRVFKSQSYKASTFDGLSMDTE
1						VIKSNGKQGWRQRRLANMKDI
		l				DKQTQAATFVLSQGMQRSGND
		1				RIILVTGASDGIGREAAMTYAR
		1				YGATVILLGRNEEKLRQVASHI
		1				NEETGRQPQWFILDLLTCTSEN
						CQQLAQRIAVNYPRLDGVLHN
						AGLLGDVCPMSEQNPQVWQD
		l		ł		VMQLFRAGINADPGAFFVTGF
	İ			l		RRYCCFTLCCRSFRFGFYRRRF
1	į.	l		ł		RHRSCRQRAMRHSGTGQGQGN
ı		ľ		l		EQCFNSVFHTVFSLFVNSGITLT
				l		AVKTVNKWOCSEMEKAAKAT
1		l		l		FSCYSCNAFFCEAASGLLLFQRI
				l		ANFDFRLFTQVTHQSFKDDLGI
	1	l				KMETTKPSFODVLEFVRLFRRK
		l		l		NKLOREIQDVEKKIRDNOKRVL
1		ı				LLDNLSDYIKPGMSVEAIOGIIA
		1		l		SMKGDYEDRVDDYIIKNAELSK
	ľ					ERRDISKKLKAMGEMKNGEAN
		l				RKERSSMFRDRPLKRMKSKRD
		l				DDSYDEDVEDDEGVGEVRVHR
	i					VNHAPANAQEHEAARPSPQHQ
						YOPPYASAOPROPVOOPPEAOV
21773	52141	A	21901	1	96	TOTAL TOTAL TOTAL TOTAL
21774	52141	A	21901	105	430	ASIFVMLVRGAEPMEKRQQRG
21//4	32142	I ^A	21902	103	430	LFTVPGLLLAFCSHVLSCVNPLI
		l		ł		
		l		[PVDNPYYPPLSELIPAPPQPNDR
		l		l		AQRVSERGSGRAPNTQTASPRA
1	1	l .				LADSLMQLAR\QVSRLESGQ

SEO ID	SEO ID NO:	Met	ISEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
İ	sequence	į	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
1				sequence		
21775	52143	A	21903	843	2055	HHRMAQNLSRYGNDKRPEESQ
		1		1		FRVVNVKPVTLYDVAEYAGVS
				1		YOTVSRVVNOASHVS\AKTREK
						VEAAMAELNYIPNRVAQQLAG
	1	1				KQSLLIGVATSSLALH\APSQIV
1	ł	1			l	AAIKSRADQLGASVVVSMVF\R
l						SGLVACHTAPHNLL/ARKRGPA
		1				GLIINYPLDD\QDAIAVEA\ACT
1		i			l .	NVPALFLDVSDQTPINSIIFSHE
					i	DGTRLGVEHL\VALGH\OOI\AL
1		1				LAGPLSSVS\ARLRLAG\WHNFL
1	1	1				TGN\QIQPIA\ER\EGDWSAMSGE
1		1				QQT\LQMLNEGIVPHWRLLVAQ
ŀ		ŀ		l		RSRMALG\AMRRHYPESGLRV
	ŀ	1				GA\DILRVGGNTTIPED\SSCYIP
		1		l		AL*PPIKQDFRLLGA/QTSVDR\L
		1			l	LOLSOGOAVKGN\QLLPVSL\V
1				1		KRKTTL\APNTQTA\SPRALPRF
01776	50144	١.	21004		1201	H*MQLA\RQVSRLESGQ
21776	52144	A	21904	1	1201	
21778	52146	A	21905	646	934	
21779	52140	A	21900	1	1713	MLCTKWDKLGLEKNAGKNKN
21//9	32147	^	21907	l '	1773	AYKWYGWPANAPDEPHIEOLV
1	Į.	ĺ				GECRYMROLKRLISRIAPSPSSV
1		1				MVVGESGTAIPVVSHAEFKGGF
			l			ADIGVHYLDWTSRTTEKSSTKS
		1				HKDDFGYLEFEGGANFSWGEM
1		1				YGFFDWENFYNGRHNKPGSEQ
		1				RYTFKNTKPYLSWVDTGFSLYL
1		1				HAYGTYGSANRVNFLDDM\FL
		1				AGFGFQF*PAGGW/WGSNPFFA
						K\RYTRSKPYYT\GDNGYV\AG
		1				WVAGYNFMLGSEKFTLTNWN
		1				EYEFDRDATYAADFLPLYDVD
						CODNGNLEYDTYSOPEWKHNL
						FDHYLAVLYRFKDESGKEQFSC
						AVVKTREATPGKEIEAITRRML
						DFSPRLKKLADCPSPRPVFEALO
1		1	1		1	ICSMLDALLLLCPLDYHASCDN
		1				YSYALLDPQGFPLPHRRLWGPY
		1	1	1	1	
		1	1		1	IDVDVPMLHLIQHAWAQDALL
	1	1				SCLYSDLLYMSSFPYPAGTLTR
		1	1	1	1	LMGVTSYNHKNTLLTYCITLMS
		1	1	1	1	TIRFAYDGDEEIAMKYTDFLKG
	1	1	1	1	1	ELSMNIRPLHDRVIVKRKEVET
		1	1		1	KSAGGIVLTGSASAKSTRGEVL
	I	1	1	1	1	AVGNGRILENGEVKPLDVKIGD
L		<u> </u>				IVFFNDGYRGEI
21780	52148	Α	21908	2060	2404	
21781	52149	В	21909	1	1377	

SEO ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	l l	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
		_				
21782	52150	Α	21910	52	1719	IGQVVDVDTCFTRIHLVFVNFD
				1		NDTGSIHVLNDTTTFSYRSYTG
		ŀ		i		VNGNSTFHTSTNQRLISAQSRN
						GLTLHVRTHQCTVGVIVFQERD
		ļ.		Į.		QGRTDGYHLLGGYVHVVNLV
i i		l				AAEQAGFAFATASYQVFYEVA
				ĺ		FFIQVGVRLGDNVVAFFDSRQV
						VNFVSYNTVGHFTIRSLKEAVF
						VSLCVHGQRVDQTDVRTFRGF
		1				DWTDATVVSRVYVSNFEACTF
						TGQTAWAECGDTTFVRNLRQR
		1				VVLVHKLRQLAGTEELFHCCG
						SQDPQQPWGWNLRVNPLAQTT
						GHAHEAQRKQWHKGNEEADD
						PEPERAFTPGFVQFETERFRPPV
						GHPCEAAEDHAADDHVMEVR
						NQEQAVMQNEVRARYGQQHA
		1		l		SHPAHREGDDKTDGPQHRRME
1						HDAALIHGEQPVEDLHPGRDG
ŀ						DNHCGDTKEGVYVRARTHRKE
l						VVQPNDERQHGDTDGCPYQRG
		1				ITKQTFTREGCRNFGEHTENRQ
		1		l		DQDVNFRVAPGPNQVDVHHH
						VATHIVGKEMGAQIAIQGQHAT
				i		YRQNGKDL*SNRGVASGNPQC
		ŀ				RHRAHRRATDCOTVIKOPVFFG

	SEQ ID NO:					Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*-Stop codon, /-possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21783	52151	Α	21911	608	2508	YITATSCSGWMIRWCAKAAKC
						CA/CSRGPGGKLRRHKGAEETL
						CGNTRVLIAPQLPAVIIATLSGS
						RSQTGRREGPTPTTVMIQDHTG
						SSTDDECSANVQRIFNRIMLCSI
						VSRPRTIPFHDLAQSFRQFRNVK
						CLWCAFEGAQLMRIQPAIVMV
						KTIHRERLNSGQFRCHQEARNI
						PPHRQSRFLASRGLLAELMFML
			İ			YGIGELPEIVTLPKEIRGNVDNS
						RHAVFLANSGMPELRFIRTHGS
						RFTSQDCTLFNWLARIITPVLQS
ł		l				WLNDEEQQVALRLLEKDRDHH
						RVLVDITNAVLSHLDLDDLIAD
		1		1		VAREIHHFFGLASVSMVLGDHR
		1				KNEKFSLWCSDLSASHCACLPR
1						CMPGESVLLTQTLQTRQPTLTH
		ļ				RADDLFLWQRDPLLLLLASNG
			ŀ			CESALLIPLTFGNHTPGALLLAH
		l				TSSTLFSEENCQLLQHIADRIAI
			İ			AVGNADAWRSMTDLQESLQQ
	1					ENHQLSEQLLSNLGIGDIIYQSQ
	1	l				AMEDLLQQVDIVAKSDSTVLIC
1	l	l				GETGTGKEVIARAIHQLSPRRD
	1					KPLVKINCAAIPASLLESELFGH
	1					DKGAFTGAINTHRGRFEIADGG
	İ	1				TLFLDEIGDLPLELQPKLLRVLQ
						EREIERLGGSRTIPVNVRVIAAT
		_				NRDLWQMVEDRGVI
21784	52152	A	21912	147	2699	MTIRAICSCCPLPDA*NVLM*IY
		l				MSTFQASGNGQQLQIARIVIQNI
		L.				TG
21785	52153	Α	21913	432	1016	FCPSSCLAATAPAA*AGWSFLP
	l					SPAEQNRWRFPLSRFCQIPAPL/
	1	1				LGTLIISLSVFCSILAASAAEIPG
1	1	l				SVDGIYNKSPSLI\WVKIPRQLY
1	1	l				*AAREPSAPKAPPPAAWFSASA
		1				VLSATA\MINTNQKAIERVTAFR
1				l		RNFATDPVAHQDRDHYDRQQR
	1	l				RTRHRIRFGERQRAKQTPFLPFQ
		<u></u>				GEDRDKRQRDNQQTDK

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
	1			sequence		
		_				
21786	52154	A	21914	I	1146	MTTSMLNAKLLPSAPSAAVVV
						VRVVVVVGNAPTSRKVGPEEK
						DWSMASSGTTSTRKRFTGAEFI
						VHFLEQ/PGH*DCDRHSG/S/CSI
	1					LPVYDALSQSTQIRHILARHEQ
						GAGFIAQGMARTDGKPAVCMA
1						CSGPGATNLVTAIADARLDSIPL
						ICITGQVPASMIGTDAFQEVDT
		1				YGISIPITKHNYLVRHIEELPQV
						MSDAFRIAQSGRPGPVWIDIPK
1			i .	l		DEQTAVFEIETQPAMAEKAAAP
						AFSEESIRDAAAMINAAKRPVL
						YLGGGVINANARVRELAEKAQ
						LPTTMTLMALGMLPKAHPLSL
ľ						GMLGMHGVRSTNYILQEADLLI
		1				VLELAGVOTVDTDVNASKPAS
		1				ATRHIAFOTVTIGCDRNLADSV
i						VFPHSVDDIGKVAA
21787	52155	A	21915	1001	1037	MVGMASSCMPAFTRLELYSVIS
21/0/	32133	^	21713	1001	1037	QSTQIRH/ILARHEQGAGFIAQG
						MA/RTDGKPAVCMACSGPG/AT
						NLVTAIADARLDSIP/LICITGOV
1		l				PASMIGTDA/FOEVDTYGI/STM
		l	1	l		TLMALGMLPKAH/ALSLGMLG
			i		1	
		ĺ				MHGVRSTNYFCQEADLSIVLG
						ALFDAGQIGKTSSFCPNAKI/IH
			l			VDIDRAE/REFPCPIPKACDLLS
1	ļ					H/YGLINAVAACVDDNAIITTD
	1	l	1			VGQHQMWTAQAYPLNRPRQW
			1			LTSGGLGTMGFGLPAAIGAALA
	1		1			NPDRKVLCFSGDGSLMMNIQ*
						MIIAIPTGVKIFNWCSPCIRPHR
						VPFCDAVAIGFIVTFSDVIQIASI
						YEIPCRDPTGVASTEYSSSSCRR
						RRNTTLCDPGSPAQRQSPQAGQ
		1_				NPSCPAHRRSATGVGD
21788	52156	Α	21916	135	449	
21789	52157	Α	21917	5	214	
21790	52158	A	21918	2	337	IGIAKHAQQLLLNVMQTRAVG
1		1				AEVQTVSATGSAVRQALANNL
		1		l		QPFAIFFQINA/W**RAGRYPDD
1	1	1	1	I	1	HGISPETALYGWHTSATGTAG
		l		1	[MR*SVRPWLQSGQGCSGWRRQ
1		1	1	1		OPRWSP
21791	52159	A	21919	1	774	-
	1	11.				J

SEQ ID NOC. Net SEQ ID NOC. Nocleoside Noc. Nucleoside Noc. of peptide	NVADG LRADS KNTPL PLAVW KRLV NAAQ VTSV* ALRAG DRQSV
21792 52160 A 21920 2 914 RHIRTPAHLERFIVDIALL HRAKLIVOSAGITRAQITV SANNERGOVGLVROPERE VARQAAVSLARFICLAF VARQAAVSLARFICLAF VARQAAVSLARFICLAF NFNKLNFADLQRFLWRI LSCAITIT/ADPAVLLHH PAQI-WRIS-PYRONLET. MI-HMI.GDKTT/MI-FIRM NA*DLOPFRVNAFAEIA VSETAGHARTEVNAGFI DTTRHIFFITVANAFAYH VTHAEFITRAACGIQITT QAGVADNACEMAAEG TNGD	NVADG LRADS KNTPL PLAVW KRLV NAAQ VTSV* NLRAG DRQSV
21792 52160 A 21920 2 914 RHIRTPAHLERFIVDIALI HRAKLIVQSAGTFAQTV SANFRQGVGLVRQFRRF VGELQPVRDVYVRAFI VAARQAAVSLRFGLAFG NFNKLNFADLQRFLWRI LSCATTT/ADPAVLLHH PAQI*WRIS*PVRQNLET: MLHMLGDKTTQMLFM NA*DLDQFRVNAFAEIA VSETAGHARIEVNAGFI DTTRHIFTIVVANAFVH VTHAETFRAAGGIQTT QAGVADNACFMAEGG TNGD	LRADS KNTPL PLAVW KRLV NAAQ VTSV* NLRAG DRQSV
HRAKLIVQSAGTFAQTV SANFRQRYGLVRQFRR VGELQPVRDVVYYRAFI VAARQAAVSLRFGLAF* VAARQAAVSLRFGLAF* NFRIKLIFADLQRFLWRI LSCATTIADPAVLLHH PAQI*WRS*PYRQNLFT MLHMLGDKTTQMLFMI NA*DLDQFRVNAFAELA VSETAGHARIEVNAGFI DTTRHIFTIVVANAFVH VTHAEFTERAAGIQTY QAGVADNACFMAAEGI TINGD 21793 52161 A 21921 204 371 PGPAGAQSAALYRWSPC RADWFRADC*IYPERA AYRRLSPAYGI AYRRLSPAYGI A 21922 2664 2970 TPDTAPAGCSSRAPDGP MPRRG*FHTARYCRTP *R*TE*STCPARTGEWY, APGTSRQTATMPPTMFR YSSTQPDGRRQNC 21795 52163 A 21923 318 459 21796 52164 A 21924 577 888 TNSNQQLAEGNRERLIG GPERITAGRR*LFSCQNR RFNCCHIGMPVVVIWERI QHDDLVNPFRQNEVN	LRADS KNTPL PLAVW KRLV NAAQ VTSV* NLRAG DRQSV
HRAKLIVQSAGTFAQTV SANFRQGVGLVRQFRR VGELQPVRDVVYYRAFI VAARQAAVSLRFGLAF* VAARQAAVSLRFGLAF* VFRILNFADLQFELWRI LSCATTTADPAVLLHH PAQI*WRIS*PVRQNLFT MLHMLGDKTTQMLFM NA*DLDQFRVNAFAELA VSETAGHARIEVNAGFI DTTRHIFTITVANAFYH VTHAEFTERAAGIQTT QAGVADNACFMAAEG TNGD PGPAGAQSAALYRWSP RADWFRADC*IYPERA AYRRLSPAYG AYRRLSPAY	LRADS KNTPL PLAVW KRLV NAAQ VTSV* NLRAG DRQSV
SANFRQGVGLVRQPRET VGELQPVRDVVYYRAF VGARQAAVSLRFGLAFC VGARQAAVSLRFGLAFC VGARQAAVSLRFGLAFC VGARQAAVSLRFGLAFC VGARQAAVSLRFGLAFC VGARQAAVSLRFGLAFC VGARQAAVSLRFGLAFC VFRIKTING LSCATTTADPAVLIHH LSCATTTADPAVLIHH LSCATTTADPAVLIHH LSCATTTADPAVLIHH LSCATTTADPAVLIHH LSCATTTADPAVLIHH LSCATTTADPAVLIHH VGAGVADVALFT VGAGVADVACFMAFGT VGAGVADVACFMAFGT VGAGVADVACFMAFGT VGAGVADVACFMAFGT VGAGVADVACFMAFGT VGAGVADVALFT VGAGVADVATAT VGAGVADVATAT VGAGVADVATAT VGAGVATAT VGAGVATAT VGAGVATAT VGAGVATAT VGAGVAT VG	KNTPL PLAVW KRLV NAAQ VTSV* ALRAG DRQSV
VGELQPYRDVVVYRAF VAARQAAVSLRFGLAF(NFNKLNFADLQRFLWRI LSCATTT/ADPAVLLHH PAQI*WRS*PYRQNLFT. MLHMLGDKTYQMLFMI NA*DLDQFRVNAFAEIA VSETAGHARTEVNAGFI DTTRHIFTTVANAFYH VTHAEFTFRAACGIQTT QAGVADNACFMAAEGC TNGD QAGVADNACFMAAEGC TNGD PGPAGAQSAALYRWSPC RADWFRFADC*1YPENR AYRPRLSPAYCG A 21922 2664 2970 TPDTA*PAGCSSRA*PDG*P MFRRG*PHTARYCST*P *R*TE*STCPARTGEWY/ APGTSRQTATMP*TMFR YSSTQP*DGRQNC 21795 52163 A 21923 318 459 21796 52164 A 21924 577 888 TNSSNQQLAEGNRERLI GPERITAGR**LFSCQNR RFNCKHIGMP*VVVIWRI QHDDLVNFRGMRVNRV	PLAVW KRLV NAAQ VTSV* ALRAG DRQSV
VAARQAVSLRFGLAFF NFNKLNFADLQRFLWR LSCATTT/ADPAVLLHH LSCATTT/ADPAVLLHH PAQI*WRS*PYRQNLET: MLHMLGD&TTYDMLFM NA*DLDQFRVNAFAEIA VSETAGHARIEVNAGFI DTTRHFITIVANAFYH VTHAETFTRAACG QTT QAGVADNACFMAEGG TNGD	KRLV NAAQ VTSV* ALRAG DRQSV
NFNKLINFADLQRFLWRI LSCATIT/ADPAVLLHH	NAAQ VTSV* ALRAG DRQSV
LSCATT/ADPA/LLHH	VTSV* ALRAG DRQSV
PAQI*WRIS*PVRQNLFT. MLHMLGDKTTQMLFM	ALRAG DRQSV
MI.HMLGDKTTOMLFMI NA*DLDQFRVNAFAEIA VSETAGHARTEVNAGFI DTTRHIFTTVVANAFVH VTHAEFTERAAGIQTT QAGVADNACFMAAEGG TNGD QAGVADNACFMAAEGG TNGD PGPAGAQSAALYRWSPC RADWFRFADC*IYPENR AYPRI.SPAYCG RADWFRADC*IYPENR AYPRI.SPAYCG PFDTAPAGCSSRAPDGP MPRRG*PHTARYCSTP *R*TE*STCPARTGEWY/ APGTSRQTATMPPTMFR YSTCPPGRGNC VSTC	RQSV
NA*DLOOFRVNAFAELA VSETAGHARTEVNAGFT	
VSETAGHARTEVNAGT	CHEN
DTTRHIFTTVVANAFYH	ATIEN
VTHAETFTRAACGIQTT QAGVADNACFMAAEG TNGD	QNAD
QAGVADNACFMAAEGC	SDSTG
QAGVADNACFMAAEGC	GRAI
TINGD	
21793 52161 A 21921 204 371 PGPAGAQSAALYRWPPR RADWFRFADC*I/PENR AYRRLSPAYCG PFDTAPAGCRSRAPDGP PFDTAPAGCRSRAPDGP PFDTAPAGCRSRAPDGP PFDTAPAGCRSRAPDGP PFPTAPAGCRSRAP	
RADWFRFADC* YPENR AYRPRLSPAYCG	OAVS
AYRPRLSPAYCG	
21794 52162	4.7100
MPRRG-9FHTARYCRTP *R*TE*STCPARTGEWY, APGTSRQTATHEPMY PMPTWR YSSTQPDGRRQNC	SI PRO
*R*TE*STC*ARTGEWY, APGTSRQTATMPPTMP YSSTQPDGRQNC 21795 52163 A 21923 318 459 21796 52164 A 21924 577 888 TNSSNQQLAEGNRERLIS GPERITAGR*LFSCQNR RFNCCHIGMPVVVIWAII OHDDLVNPRMVNRV	
APGTSRQTATMPPTMPR YSSTQPDGRRQNC 21795 52163 A 21923 318 459 21796 32164 A 21924 577 888 TINSSNQQLAEGNRERLIG GPERITAGRR*LESCQNB RFNKCHIGMPVVVIWRI QHDDLVNPFGMRVNRV	
YSSTQPDGRRQNC	
21795 52163 A 21923 318 459	idaiss
21796 52164 A 21924 577 888 TINSNQQLAEGNRERLIG GPERITAGRR*LPSCQNIG RFNKCHIGMPVVVIWRI QHDDLVNPFGMRVNRV	
GPERITÄGRR*LFSCQNR RFNKCHIGMPV-VIVIII QHDDLVNPFGMRVNRV	RNTA
RFNKCHIGMPVVVIWRI QHDDLVNPFGMRVNRV	
QHDDLVNPFGMRVNRV	
21797 52165 A 21925 3 711 AGAHSGPSHPALATTAA	
21/9/ 32163 A 2192 S MI AGNRSGISGFSGHSRNPI	
RCL*SS\ALERLMRRLNC	
SDVTTTTPS/LSPOVYCS.	
LCTRATPRWQSAGHPYC	
SYCAIYSDRSIRGNYSTR	
GRRV\PTGSWQKTESEK	
CANWANDRTPLPTSTSS	
NVQTSVVPVLRRWIWLT	ANCST
VLTVSLKSVCARGTSPQ	ANCST SLRV
VKRAASSATSPVVITTC	ANCST SLRV
21798 52166 A 21926 244 535 TRYPDDHGISPETALYG	ANCST SLRV ASCWF
TGTAGMR*SVRPWLQSG	ANCST SLRV ASCWF
GWRRQQPRWSP**RSC*	ANCST SLRV ASCWF WHTSA GQGCS
PATL*FCRLYNQTSGPGi	ANCST SLRV ASCWF WHTSA GQGCS CSVY
AFPDSDRRKI	ANCST SLRV ASCWF WHTSA GQGCS CSVY

SEQ ID NO:	SEQ ID NO: of peptide sequence	hod	SEQ ID NO: in USSN 09/540,217	location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21799	52167	A	21927	869	2923	PKKDLKIATSAMMEAAYSV*SR TLFW/SPVRDSQVTDTQWQGL MSQLRLQGFDTLVLQWTRYGD AFTQPEQRTLLFKRAAAAQQA GLKLIVGLNADPEFFMHQKQSS AALESYLNRLLAADLQQA RLW SAAPGITPDGWYISAEIDDLNW RSEAARQPLLTWLNNAQRLISD VSAKPYYISSFFAGMMSPDGYR QLLEHWKATGVNVWYQDGSG VDKLTAEQRERYLQASADCHD VDKLTAEQRERYLQASADCHD
21800	52168	В	21928	72	690	
21801	52169	A	21929	1	2241	
21802	52170	A	21930	1607	1893	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLSLKTRPAFFQLLIK HVD/SMCHQRLSGSRKSKHNVI AVVFSYCSVSVFSASCPTHQVL LQTQYF
21803	52171	Α	21931	1	3960	
21804	52172	Α	21932	1	1281	
21805	52173	Α	21933	1	1491	
21806	52174	Α	21934	1	1254	
21807	52175	Α	21935	1	723	
21808	52176		21936	740	880	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLSLKTRPGFFPTVN
21809	52177		21937	1	1191	
21810	52178	Α	21938	1033	1248	
21811	52179	Α	21939	1	1425	
21812	52180	Α	21940	1	2784	
21813	52181	Α	21941	676	1467	
21814	52182	В	21942	1	3288	

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /-possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21815	52183	A	21943	145	1929	VSGVIEIADGSRRRKAAALTES
21013	32163	<u>۱</u> ^	21943	143	1929	
						DYRVLVGELDDEQMAALSRLG
						NDYRPTSAYERGQRYASRLQN
						EFAGNISALADAECDNLKTCHT
		l		}		SHGSVMAETAVINHKKRKNSP
				ł		RIVQSNDLTEAAYSLSRDQKRM
		ŀ		i		LYLFVDQIRKSDGTLQEHDGIC
		1				EIHVAKYAEIFGLTSAEASKDIR
		l				QALKSFAGKEVVFYRPEEDAG
		l				DEKGYESFPWFIK/RPSRGLYSV
l		l				HINPYLIPFFIG\LQNRFTQFRLS
i						ETKEITNPYAMRLYESLCQYRK
	1					PDGSGIVSLKIDWIIERYQLPQS
i						YQRMPDFRRRFLQGFCRFRNH
l	1	1				HQTGFSPAGANQRGPLAATLSG
i		1				PGGEGQSAVARLTGEKKNHPG
i						AQYANRLSPRVGRFINAAGTTG
i						FPTWKAGSERNAINDDVTYAIK
i						PTCWPGLDIIPSCLALHRIETEL
i		l				MGKFDEGKLPTDPHLMLRLAIE
i						TVAHDYDVIVIDSAPNLGIGTIN
i						VVCAADVLIVPTPAELFDYTSA
i						LQFFDMLRDLLKNVDLKGNSN
l		1				GSQSPWMEEQIRDAWGSMVLK
i						NVVRETDEVGKGQIRMRTVFE
i						QAIDQRSSTGAWRNALSIWEPE
						CNEISIGVSLDQDGGSNSVLRK
21816	52184	Α	21944	1790	2947	TDFSVRCKGCRTGPFLRLIFQDR
ı						IVGVELIAVF*NTGPRFSSCRLS
i .						WRRPFDKTCRMRWHQRLSGFP
						QEQNDGKQQPILC
21817	52185	Α	21945	1	888	
21818	52186	Α	21946	252	1863	RKNPFILH*LFR*TLRQTKPDDS
						AGKGVKI**HTQNQRSGRSQND
						F*RRLW
21819	52187	В	21947	1	1794	

NO. of peptide requence hod with 28/31/17 in USSN with reduction of first codons for patide sequence codon for patide sequence codon for peptide deletion, "possible nucleotide insertion) 21820 32188 A 21948 138 341 PNPRGLLNTITPEHFKSKLHIPT TYRQSNGITASHYSYARN*R*N.W.WARGNAITLPVCGRDVKFTI EVLRGDSVEKTSRVWSGLLEL KAAASLVFLEOHEYPEEIGTS GSVLVSVVGEOPFVEEDLRS. PGRWDKKHKMFDAIEPPKKD: DKFDANDPILKDQTGEWSGSA TFTSDGKIRLFYTDYSGKHYGI QSLTTAQVNVSKSDDTLKING EDHKTIPEDGGGKTYQNVQQFI EGNYTSGDNHTLRDPHYVEED GHKYVFEANTGTENOYQCGI SLFNKAYYGGGTNFFRKESQK QQSAKRRDALANDAGIEIEL YDYTLKKMKAADHFQTPVT EIERANVFKNMG 21821 32189 A 21949 761 916 NKRIFPSHVKVAEPDHSCV*SF IGSLASNLSLSLKTRPAFFQLSI LSPT 21822 32191 B 21951 50 1690 1437 21823 32191 B 21951 1002 257KKSLASNLSLSLKTRPAFFQLSI LSPT 21826 32193 A 21954 878 1202 SVYNKRIFPSDVKVAEPDHSCV *SFRIGSLASNLSLSLKTRPAFF 21826 32194 A 21955 7 1702 VSFRIGSLASNLSLSLKTRPAFF 21827 32195 B 21955 7 1702 NKRIFPSDVKVAEPDHSCV *SF GOS 21829	SEO ID	ISEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
21820							
21820 52188 A 21948 138 341 PNPRGLLNTITPEHFKSKLHIPT TYRQSNGITASHYSYARN*RViv VMARGNAITLPVCGRDVKFT1 EVLRGDSVEKTSRVWSGLLEL KAAAASLVFLEGHEYPEGEGIST GSVLVSVVGEGPFVEEDLRKS PGRWDKKHKMFDAIEEPKKD: DKFDANDPILKDQTGEWSGSA TFTSDGRIRLFYTDYSGKHYGI QSLTTAQVNVSKSDDTLKING EDHKTIPEDGGKTYQNVQQFI EGNYTSGDNHTLRDPHYVEDG GHKYLVFEANTGTENGYQGEI SLFNKAYYGGGTNFFRKESQK QQSAKRRDAELANGALGIELI YDYTLKKVMKAADHFQTPVT EIERANVFKMNG NKRIFPSHVKVAEPDHSCV*SF IGSLASNLSLSLKTRPAFFQLSI LSPT 1437 21822 32190 A 21950 I 1437 21823 32191 B 21951 30 1690 21824 32192 B 21952 I 1032 21825 32193 B 21953 I 1974 21826 32194 A 21954 878 1202 SVYNKRIFPSDVKVAEPDHSCV*SF LSIERFRPFFCKELMCHQRL; GFPHEQTQRDSTCLQLFRQRF AAASCPTHQVLLQTQYF 21827 32195 B 21955 7 1702 7 1702 7 1702 7 1702 1					codon for peptide		deletion, \=possible nucleotide insertion)
TYRQSNGITASHYSYARN*RV VMARGNATILPYCGROWEFTE EVLRGDSVEKTERVWSGLLE KAAASLYFLEQHEPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSLATAQVNVSSSDDTLKING GEHKTIPEDGBKTYQNVQOFF ECNYTSGDHTLRDPHYVEDG GHKYLVFEANTGENGYQGE ECNYTSGDHTLRDPHYVEDG GHKYLVFEANTGENGYQGE SLFNKAYYGGGTNFFKESQK QQSAKKROAELANGALGIELI YDYTLKKVMKAADHFQTPYT EIERANVFKMNG NKRIPPSHVKVAEPPHSCV*SF IGSLASNLSLSLKTRPAFFQLSI LSPT					sequence	1	
TYRQSNGITASHYSYARN*RV VMARGNATILPYCGROWEFTE EVLRGDSVEKTERVWSGLLE KAAASLYFLEQHEPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSVUSVVGEPPYEEJGTSS GSLATAQVNVSSSDDTLKING GEHKTIPEDGBKTYQNVQOFF ECNYTSGDHTLRDPHYVEDG GHKYLVFEANTGENGYQGE ECNYTSGDHTLRDPHYVEDG GHKYLVFEANTGENGYQGE SLFNKAYYGGGTNFFKESQK QQSAKKROAELANGALGIELI YDYTLKKVMKAADHFQTPYT EIERANVFKMNG NKRIPPSHVKVAEPPHSCV*SF IGSLASNLSLSLKTRPAFFQLSI LSPT			<u> </u>				
VMARGHAITLPVGGROVEFTE EVLRGDSVEKTSRVWSGLEL KAAASLVFLEQHEPVEEIGTS GSVLVSVVGEGPFVEEDLRS PORWOKHIKRIPDAIEPKEND DKFDANDPILKDOTGEWSGSA TFTSDGKIRLFYTDYSGKHYGI QSLTTAQVNVSKSDDTLKING EDHKTIFDGDGKTYQNVQQFI EGNYTSGDMTHLRDPHYVED GHKYLVFEANTGTENGYQGEI SLFNKAYYGGGTNFFRKESQK QQSAKKRDAELANGALGIIELI YDYTLKKVMKAADHFQTPVT EIERANVFKNNG NKRIFPSHVKVAEPDHSCV*SF IGSLASNLSLSLKTRPAFFQLSI LSFT	21820	52188	Α	21948	138	341	
EVLRGBSVEKTSRVWSGLEL KAAASLVFLEQHKPYEEIGTSI GSVLVSVVGEOFPVEEDLRKS PORWDKKHKMFDAIEPFKDD DKFDANDPILKDOTQEWSGSA TFTSDGIRLFYTDVSGKHYGI QSLTTAQVNVSKSDDTLKING QSLTTAQVNVSKSDDTLKING GPHKTIPEDGDKTYQNVQOFF ECMYTSGDNHTLRDPHYVEDG GHKYLVFEANTGTENGYQCE SLFNKAYYGGGTFFRKESQK QQSAKKDAELANGALGIIELI YDVTLKKVMKAADHFQTPVT EIRBANVFKING POTTLKVMKAADHFQTPVT EIRBANVFKING EIRBANVFKING CSLASNLSLSLKTRPAFFQLSI LSPT LSP					İ		TYRQSNGITASHYSYARN*RVG
KAAASLYPLEQHRPYEEIGTSK GSVLVSVVGEGPFVEEIDLRKS PORWDKKHKMFDAIEPPKKDD PORWDKKHKMFDAIEPPKKDD PORWDKKHKMFDAIEPPKKDD PORWDKHKMFDAIPIKKDQ QSLTTAQVNVSKSDDTLKING QSLTTAQVNVSKSDDTLKING EDHKTIPDGDGKTYQNVQQFI EGNYTSGDNHITLRDPHYVEDB GHKYL-VFEANTGTENGYQGE SLFNKAYYGGGTFFRKESGK QQSAKKRDAELANGALGIELI YDYTLKKVMKAADHFQTPVT EIERANVFKNNG NKRIFPSHVKVAEPDHSCV*SF USLASNLSLSLKTRPAFFQLSI LSPT SIGSLASNLSLSLKTRPAFFQLSI LSPT SIGSLASNLSLSLKTRPAFFQLSI LSPT SIGSLASNLSLSLKTRPAFFQLSI LSPT SIGSLASNLSLSLKTRPAFFQLSI LSPT SIGSLASNLSLSLKTRPAFFQLSI SIGSLASNLSLSJKTRPAFFQLSI SIGSLASNLSLSLKTRPAFFQLSI SIGSLASNLSLSLKTRPAFFQLSI SIGSLASNLSLSLKTRPAFFQLSI SIGSLASNLSLSLKTRPAFFQLSI SIGSLASNLSLSLKTRPAFFQLSI SIGSLASNLSLSLKTRPAFFQLSI SIGSLASNLSLSLKTRPAFFQLSI SIGSLASNLSLSLKTRPAFFQLSI SIGSLASNLSLSLKTRPAFFQLSI SIGSLASNLSLSLKTRPAFFQLSI SIGSLASNLSLSLKTRPAFFQLSI SIGSLASNLSLSLKTRPAFFQLSI SIGSLASNLSLSLKTRPAFFQLSI SIGSLASNLSLSLKTRPAFFQLSI SIGSLASNLSLSLKTRPAFFQLSI SIGSLASNLSLSLKTPAFFQLSI SIGSLASNLSLSLKTPAFFQLSI SIGSLASNLSLSLKTPAFFQLSI SIGSLASNLSLLKTPAFFQTSTV SIGSLASNLSLLKTPAFFQTSTV SIGSLASNLSLLKTPAFFQTSTV SIGSLASNLSLLKTPAFFQTSTV SIGSLASNLSLLKTPAFFQTSTV SIGSLASNLSLKTPAFFQTSTV SIGSLASNLSLKTPAFFQTSTV SIGSLASNLSLKTPAFFQTSTV SIGSLASNLSLKTPAFFQTSTV SIGSLASNLSLKTPAFFQGTE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSLKTPAFFQGLE SIGSLASNLSKLTPAFFQGLE		VMARGNAITLPVCGRDVKFTL					
GSVLVSVVGEGPFVEEDLRKS PGRWDKKHKMFDAIEEPKKD: DKFDANDPILKDQTQEWSGSA TFTSDGRIRLFYTDYSGKHKGH GVSLTTAQVNVSKSDDTLKING GVSLTTAQVNVSKSDDTLKING GUSLTTAQVNVSKSDDTLKING GUSLTAQVNVSKSDDTLKING GHKYLVFEANTGTENGYQGE SLFNKAYYGGGTNFFRKESQK QQSAKRDAELANGALGIELI YDYTLKKVMKAADHFQTPVT EIERANVFKING GISLASNLSLSLKTRPAFFQLSI LSPT S12182 S2190 A 21950 I 1437 S121823 S2191 B 21951 50 1690 S121823 S2191 B 21951 J 1032 S121824 S2192 B 21952 I 1032 S121826 S2194 A 21954 878 I 1202 SVYNKRIFPSDVKVAEPDHSCV SFRIGSLASNLSLSLKTRPAFF LSIEFREPFDKTCRLMCHQRL GFPHEQTQRDSTCIQLLFRQRF AAASCPTHQVLLQTQYF AAASCPTHQVLLQTQYF AAASCPTHQVLLQTQYF S121828 S2196 A 21956 S27 665 NKRIFPSDVKVAEPDHSCV SFRIGSLASNLSLAKTRPAFF LSIEFREPFDKTCRLMCHQRL GFPHEQTQRDSTCIQLFRQRF AAASCPTHQVLLQTQYF S121829 S2197 A 21957 469 687 GSDSRAFAKENNQKAYKETY GVSHTRHDMLQIPKQQQNEK GVSHTRHDMLQIPKQQQNEK GVSHTRHDMLQIPKQQQNEK KPDANDPILKDYAEY GVSHTRHDMLQIPKQQQNEK KPDANDPILKDYAEY GVSHTRHDMLQIPKQQQNEK KPDANDPILKDYAEY KVGDNSIDSWKNAGRYKDSI KPDANDPILKDYQTQSKSAL KPDANDPILKDYQTQSKSAL KPDANDPILKDYQTQSKSAL KPDANDPILKDYQTQSKSAL KPDANDPILKDYQTQSKSAL KPDANDPILKDYQTQSKSAL KPDANDPILKDYQTQSKSAL TTDGGRIRLFYTDYSGKHYGQ LTTAQVNVSKSDDTLKINGSK KPDANDPILKDYQTQSKSGAL KP			l				EVLRGDSVEKTSRVWSGLLELL
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DKFDANDPILKDQTGE-WSGSA TFTSDGKIRLFYTDYSGKHYG QSLTTAQVNVSKSDDTLKING EDHKTIFDGDGKTYQNVQKFI EGNYTSGDNHTLRDPHYVED GHKYL-VFEANTGTENGYQCE SLFNKAYYGGGTNFFRKESQK QQSAKKRDALANGALGHELI YDYTLKKVMKAADHFQTPVT EIERANVFKNNG NKRIFSHVKVAEPDHSCV*SF IGSLASNLSLSLKTRPAFFQLSI LSPT			1		l		GSVLVSVVGEGPFVEEDLRKSF
TFTSDGRIRLFYTDYSGKHYGI QSLTTAQVNVSKSDDTLKING EDHKTIPDGDGKTYQNVQKFI EGNYTSGDNHTLRDPHYVEDR EGNYTSGDNHTLRDPHYVEDR GHKYLVFEANTGENGYQGE SLFNKAYYGGGTFFFRKESQK QQSAKKRDAELANGALGIIELI YDVTLKKVMKAADHFQTPVT EIERANVFKING 21821 32189			l		l		PGRWDKKHKMFDAIEEPKKDS
QSLTTAQVNVSKSDDTLKING EDHKTIPDGDGKTYQNVQQFI ECMYTSGDNITLRDPHYVEDH GHKYILVPEANTGTENGYQCEI SLFNKAYYGGGTFFRKESQK QQSAKKRDAELANGALGIELI YDVTLKKVMKAADHFQTPVT EIERANVFKNNG QYSAKKRDAELANGALGIELI YDVTLKKVMKAADHFQTPVT EIERANVFKNNG NKRIFPSHVKVAEPDHSCV*SF ISSLASNLSLSLKTRPAFFQLSI LSPT SPT ST ST ST ST ST ST			1				DKFDANDPILKDQTQEWSGSA
EDHKTIPGOGKTYQNVQQFI		l	1	. 6.			TFTSDGKIRLFYTDYSGKHYGK
EDHKTIPGOGKTYQNVQQFI			1				OSLTTAOVNVSKSDDTLKINGV
EGNYTSGONHTLRDPHYVED#		1	1				
GHKYLVPEANTGTENGYQCE SLFNKAYYGGGTNFFKESQK QQSAKKRDALANGALGHEL YDYTLKKVMKAADHFQTPVT EIERANVFKNNG 21821 32189			1				
SLFNKAYYGGGTNFFRKESQK QQSAKKRDAELANGALGIELI YDYTLKVMKAADHEQTPYT DYTLKVMKAADHEQTPYT EIERANYFKNNG			1				
21821 32189 A 21949 761 916 NKRIFPSHVKVAEPDHSCV*SF		1	1		ł	1	
21821 32189 A 21949 761 916 NKRIFPSHVKVAEPDHSCV*SF IGSLASNLSLSLKTRPAFFQLSI LSPT			1				
EIERANYFKNNG			1				
21821 52189 A 21949 761 916 NKRIFPSHVKVAEPDHSCV*SF IGSLASNLSLSKTRPAFFQLSI LSPT			1				
IGSLASNLSLSLKTRPAFFQLS 21822 32190	21821	52189	Δ	21049	761	916	
LSPT	21021	100	ľ	21,545	/01	710	
21827 S2190			1				
21823 \$2191 B 21951 \$0 1690	21922	52100	1	21050	,	1427	LSF1
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21826 32194							
**SFRIGSLASNISLSLKTRPAFF SIEFRRPFDKTCRLMCHQRL: GPHEQTQRDSTCQLLFRQRE GPHEQTQRDSTCQLLFRQRE AASCPTHQVLLQTQYF AASCPTHQVLLQTQYF 21828 \$2196 A 21956 527 665 NKRIFPSDVKVAEPDHSCV*SF IGSLAFNLSLALKTPARVFSTV IGSLAFNLSLALKTPARVFSTV IGSLAFNLSLALKTPARVFSTV 21830 \$2198 A 21958 2 1018 EGSDSRAFAKENNQKAYKETV GVSHTTRHDMLQIPKQQONEK QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYIV VFALAGSPKDADDTSIYMFVQ KVGDNSIDSWKNAGRVFKDSI KPENADPILKDOTQEWSGSAT TSDGKIRLFYTDYSGKHYGKQ LTTAQVNVSKSDDTLKINGVE HKTIFDQDRKTVQNGQCRLESPWQT, GVSPTVQKLKSLKFDVRQQE VWEKDEALANWTVPNITCD NLKTCHTLHGSVMAETAVFNP KKLKNSPRIVQSNHLI			_				SVYNKRIEPSDVKVAEPDHSCV
LSIEFERPPENTCRLMCHQRL: GFPHEQTQRDSTCQLLFRQF AAASCPTHQVLLQTQYF AAASCPTHQVLQTQYF AAASCPTHQVLQTQYF AASCPTHQVLQTQYF ABABCPTHQVLQTQYF GSLAFNLSLALKTPARVFSTV IGSLAFNLSLALKTPARVFSTV GSLAFNLSLALKTPARVFSTV GSLAFNLSLALKTPARVFSTV GVSHITHEHDMLQIPKQQQNEK QVPQFDQSTIKNIESAKGLDV DSWPLQNADGTVAETYNGTYH VFALAGSPKDADDTSIWMFVQ KVGDNSIDSWKNAGRVFKDSI KFDANDPILKDQTQEWSGSAT TSDGKIRLFYTDYSGKHYGKQ LTTAQVNVSKSDDTLKINGVE HKTIFDGDRKTVQNGQGE KVGDNSIDSWKAMATVFNORTCO ULTTAQVNVSKSDDTLKINGVE HKTIFDGDRKTVQNGQGE VWEKDEALANWTVPNITCO NUMERICAL STATES CONSTRUCTION CONSTRU	2.020	2.,,,	ľ.	21,754	0,0	1202	
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AAASCPTHQVLLQTQYF			l				
21827 \$2195 B 21955 7 1702		1	l				
21828 32196	21927	52105	D	21055	7	1702	AAASCITIQVEEQIQII
IGSLAFNLSLALKTPARVFSTVI 21829 32197			_				NK D I E D C U A E D D H C C U * C E D
21829 \$2197	21020	2170	ľ` `	21750	J-27	003	
21830	21820	52107	Δ.	21057	460	687	IOSE/A NESE/AERTI/ARVISTVE
GVSHITRHDMLQIPKQQQNEK QVPQDSTIKNIESAKGLDVW DSWPLQNADGTVAETYNGYHY VFALAGSPKDADDTSIVMFYQ KVGDNSIDSWKNAGRVFKDSI KFDANDPILKDQTQEWSGSAT TSDGKIRLFYTDYSGKHYGKQ LTTAQVNVSKSDDTLKINGVEI HKTIFDDDRKTYQNGQFIDE NIPPATPYAERPYYFEDKGLKY LGKPTVEPSVCGGRLESPWQT, GVSPTVQKLKSLKFDVRGQEE VWEKDEALANWTYPNHTCD NLKTCHTLHGSVMAETAVFNR KKLKNSPRIVQSNHLI 21831 52199 B 21959 7 11113							EGSDSRAFAKENNOKAVKETV
QVPQFDQSTIKNIESAKĞLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADTSIYMFVQ KVGDNSIDSWKNAGRVFKDSI KFDANDPILKDTQTQEWSGSAT TSDGKIRLFYTDYSGKHYGKQ LITTAQVNVSKSDDTLKINGVE HKTIFDDRKTYQNGQQFIDER NIPPATYAERPYYFEDKGLKY LGKPTVEPSVGGRLESPWQT, GVSPTVQKLKSLKFDVRQQEE VWEKDEALANWYTPMITCD NLKTCHTLHGSVMAETAVFNP KKLKNSPRIVQSNHLI 21831 52199 B 21959 7 11113		2130	Γ.	1	ľ		
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TSDGKIRLFYTDYSGKHYGKQ LTTAQVNVSKSDDTLKINGVEI HKTIFODDRKTYQNQQFIDE NIPPATPYAERPYYFEDKOLKY LGKPTVEPSVGGRLESPWOT, GVSPTVQKLKSLKFDVRQQEE VWEKDEALANWYTVPHITCD NLKTCHTLHGSVMAETAVFNP KKLKNSPRIVQSNHLI 21831 52199 B 21959 7 11113						l .	
LTTAQVNVSKSDDTLKINGVĒI HKTIFŪGDKRTV QNGQĢĪDEK NIPPATPYAERPYYFEDKOLKY LGKPTVEPSVCGGRLESPWQT, GVSPTVQKLKSLKFDVSKQĢEE VWĒKDĒAALANWTVPNHTCD NLKTCHTLHGSVMAĒTAVFNR KKLKNSPRIVQSNHLI 21831 52199 B 21959 7 11113	1	1				Ĭ	
HKTIFDODRKTYQNGQQFIDE NIPPATPYAERPYYFEDKOLKY LCKPTVEPSVCGGRLESPWQT. GVSPTVQKLKSLKFDVRQQEE VWEKDEALANWYTPMITCD NLKTCHTLHGSVMAETAVFNP KKLKNSPRIVQSNHLI 21831 52199 B 21959 7 11113	1						
NIPPATPYAERPYYFEDKGLKY LCKPTVEPSVCGGRLESPWQT. GVSPTVQKLSKLKFDVKQGE VWEKDEAALANWTVPNHTCD NLKTCHTLHGSVMAETAVFNP KKLKNSPRIVQSNHLI 21831 52199 B 21959 7 1113						ł	
LGKPTVEPSVCGGRLESPWQT, GVSPTVQKLKSLKFDVRGQEE VWEKDEALANWYTVPNHTCO NLKTCHTLHGSVMAETAVFNP KKLKNSPRIVQSNHLI 21831 52199 B 21959 7 1113	1	1	1	l			
GVSPTVQKLKSLKFDVRGQEE VWEKDEAALANWTVPNHTCD NLKTCHTLHGSVMAETAVFNP KKLKNSPRIVQSNHLI 21831 52199 B 21959 7 11113				ĺ			
VWEKDEAALANWTVPNHTCD NLKTCHTLHGSVMAETAVFNP KKLKNSPRIVQSNHLI		1		l	1		
NLKTCHTLHGSVMAETAVFNP KKLKNSPRIVQSNHLI 21831 32199 B 21959 7 1113				l			
KKLKNSPRIVQSNHLI 21831 52199 B 21959 7 1113	l			l	[
21831 52199 B 21959 7 III3				1			NLKTCHTLHGSVMAETAVFNP
			L				KKLKNSPR\IVQSNHLI
21832 52200 B 21960 1 1188							
	21832	52200	В	21960	1	1188	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21833	52201	В	21961	1	1414	
21834	52202	В	21962	1	1515	
21835	52203	Α	21963	1652	1916	RKNPFILH*LFR*TLRQTKPDNS AGKCVKI**HTQNQRSGRSQND F*RR
21836	52204	Α	21964	1	1353	
21837	52205	A	21965		1507	MAAQDAMYTRISSQ TIDCKEPC LKWAGVVLMLLCWLMFQVL WEACQOKTGEHKTMLQMILCN KSYQQLRLVITPMYLMLGDWL SKNCGQNSTPSLGDNPPERQTO EWSGSATFISDGKIRLFYTDVS GKHYGKQSLTTAQVNVSKSDD TLKINGYVEDHKTIFDGDGKTYC NVQQFIDEGNYTSGDNHTLLDI HYVEDKGHKYLVFEANTGT GYQGESLFNKAYYGGGTNFF KKESÇKLQSAKKRDAELANG ALGIIELNNDYTLKEVMFLITS NTVTDEIERANVFKMNGKWYL TDSRGSKMTIDDLHHAEDTL LPFYLGEKDDVTYAIKPTCWPC LDIIPSCLALHRIETELMGKFDE GKLPTDPHLMLRJAIETVAHPP AEK*HQNHSSPF*PRFFAVSLRI GSSYHCLISS
21838	52206	A	21966	729	843	NKRIFPSDVKVAEPDHSCV*SFF IGSLASNLSLLINM
21839	52207	В	21967	1	1416	
21840	52208	Α	21968	1	1794	
21841	52209	В	21969	1	1171	
21842	52210	A	21970	1108	1250	NKRIFPSDVKVAEPDHSCV*SFI IGSLASNLSLSLKTRPGGASRVF K
21843	52211	Α	21971	1	2535	
21844	52212	A	21972	743	898	NKRIFPSDVKVAEPDHSCV*SFF IGSLASNLSLSLKTRPAFFQLSIE LSAT
21845	52213	В	21973	1	1605	
21846	52214	В	21974	1	1873	
21847	52215	В	21975	1	2946	
21848	52216	Α	21976	1419	1498	
21849	52217	Α	21977	1	2314	
21850	52218	A	21978	1	1215	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
21851	52219	Α	21979	i	1851	PWISAPVPVDVVEGAMDSVTV
						LSFGGLMLYFCAGWPPARRWC
						FPESISCGSMERDQWWGLQVA
						KRAGLAGGOSGRTVLRERVRIE
						IASTHIALAARHSDWRCCRNGR
						YPARGPAALQNFQRYTGIQHV
						HRIGMAERMWCDRNRERHTVS
						SSGGNRLPNPGPDRSCDNLKTC
						HTSHGSVMAETAVINHKKRKN
						SPRIVQSNDLTEAAYSLSRDQK
						RMLYLFVDQIRKSDGTLQEHD
						GICEIHVA\KYVEIF\GLPFAEAS
				ŀ		KDIRQALKSFAGKEVVFYRPEE
						DAGDEKGYESFPWFIKRAPSPS
l						KGLYSVHINPYLIPFFIGLQN\RL
Į.						TQFRLSETKEIPNPYAM/RLYTN
						TLCQYRKPDGSGIVSLKIDWIIE
1						RYQLPQSYQRVWTPGINCPEPC
1						PGVWTPGINCPGA WGIHGPHGS
İ		l				AENTGPLHPGQTSAQLETSLLP
1						SLRSARELELAQLSPRRKQNRS
ŀ						LQNIGVTPSLRVPWPKASNVQQ
ŀ		1	1			FIDEGNYTSGDNHTLRDPHYVE
ļ		ł	ŀ			DKGHKYLVFEANTGTENGYQG
		1				EESLFNKAYYGGGTNFFRKESQ
ŀ	ĺ	١.				KLQQSAKKRDAELANGALGIIE
		ł				LNNDYTLKKVMKPLITSNTVTD
						EIERANVFKMNGKWYLFTDSR
21852	52220	Α	21980	3197	5376	
21853	52221	Α	21981	543	5690	RKNPFILH*LFR*TLRQTKPDNS
		İ				AGKCVKI**HTQNQRSGRSQND
						F*RRWSRSY
21854	52222	Α	21982	2241	2614	ETLTTLKTKAINTLYSKPTREQ
		1				KTDTKAKNLYLTKRTTAAART
		l				SSVKKAISFNRALKNAMLS*RT
1		l				APSVS*IRHRV*NLTMRSSSSSA
				1		PSPWML*A*AWLCRYCRASCGI
						SSIPTASPVTMACC
21855	52223	Α	21983	31	892	
21856	52224	A	21984	548	855	
21857	52225	В	21985	1	1825	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
01050	52226	_	21986	1	3146	NEW AVENUE NO AVAILABLE
21858	52226	A	21986	1	3146	MEWGKFKRLVLPSQGKSKPEQ
						RCQYRHTVGDQATLPLRSRVE
						KRNGEAEGRIYRKLWDVALLC
						CVQEVINGERKPLRALTEVKSG
		i	İ	İ		FRLREDSDKFDANDPILKDQTQ
						EWSGSATFTSDGKIRLFYTDYS
						GKHYGKQSLTTAQNVQQFIDE
	ŀ					GNYTSGDNHTLRDPHYVEDKG
						HKYLVFEANTGTENGYQGEES
						LFNKAYYGGGTNFFRKESQKL
		1	i			QQSAKKRDAELANGALGIIELN
		<u> </u>				NDYTLKKVMKPLITSNTCDN
21859	52227	A	21987	1	3107	MNEMKREEKFREKRRERNEQI
			İ			LQEIRDYVKRSNLHLIGVSKSD
						GENGTELENTLQDIIQENFPNLA
						RQANIQIQEIQRMLQRYSSRRTT
1		1				PRHIIVRFTKVEMKEKMLRAAR
		l				EKGRVTHKGKPIRLTADLSAET
						LQATKEWRPIFNILKEKNFQPRI
						SYPAKLSFISEGETKYFTDKQM
						LRDFVTTRPALKELLKEALNME
		l				RNNRLVKSLAWASQNGFRSPA
						LLPLSLMLCAPLQEADGTNLG
						WLAHCGLLCTGDH
21860	52228	В	21988	239	2825	
21861	52229	A	21989	7533	11119	
21862	52230	A	21990	1	3718	MEVIPEGYRLSELKKCSKWIVV
						MVARLYEYTKNQQIIHLKWVN
						HMLGCLLDRNDPLRDVDEAAV
l						PVLCICSADDPVCGPPDHTLTTE
				ŀ	1	LFHSNPYFFLLLSRHGGHCGFL
				İ		RQEPLPAWSHEVILESFRALTEF
1			İ			FRTEERIKGLSRHRASFLGGRRR
ł						GGALQRREVSSSSNLEEIFNWK
l						RSYTRLMAAAAGAAAAPGSRE
				l		PQDRPECGAGHPGPRYYRHPER
						WLLRPEAFLGPLRTRAPSAEDS
						QRERPAARSGPEM
21863	52231	A	21991	1	697	
21864	52232	A	21992	1	978	

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
21865	52233	A	21993	145	1929	VSCVUEIADGSERRKA AALTES DYRVI.VGELDDEQMAAL SRLG NDYRVI.SGLDDEQMAAL SRLG NDYRTISA YERGGRYASKLQN EFAGRISALADAECDNILKTCHT SHOSWMAETAVINHKKRKNSP RIVQSNDLTEAAYSI.SRDQKRS RIVQSNDLTEAAYSI.SRDQKRS LYLFVDQIRKSQGTLQEHQBIC EHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYREEDAG DEGGYESFPWIK/RPSRGLYSV HINPYLIPFFIGLQNRFTOFELS ETKEITRPYAMRLYESLCQYRK PDGSGIVSLKIDWIIERYQLPQS YQRMPDFRRRFLQGFCRTRNII RQTGSPAGANQRGPLAATI.SG PGGEGQSAVARLTICEKKNIPIG ETWHAGAGSERNAINDDVTYAIK PTCWFGLDIIFSCLAHRIETEL TVAHDYDVIVIDSAPNLGIGTIN TVCAADVLHYFTAELEPYTSA LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRD AWGSMYLK NVYRTEDEVGKGQIRGNRTYFE QAIDQRSSTGAWRNAISIWERE CNEISIGVSLEDG

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide sequence	hod	in USSN 09/540,217	location of first codon for peptide	codon for last amino acid of peptide sequence	*=Stup codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
	Sequence		031510,211	sequence	or prepriet orquities	
		_	101001	l v v o v	lana	Decorate Market Control
21866	52234	A	21994	I184	2229	RSSVATVALLHAVINHK/KRKN
		1				SPRIVQSNDLTEAAYSLSRDQK
		1				RMLYLFVDQIRKSDGTLQEHD
1		1				GICEIHVAKYAEIFGLTSAEASK
		1				DIRQALKSFAGKEVVFYRPEED
1		1				AGDEKGYESFPWFIKRAHSPSR
1						GLYSVHINPYLIPFFIGLQNRFT
		ł				QFRLSETKEITNPYAMRLYESL
		l				CQYRKPDGSGIVSLKIDWIIERY
		1				QLPQSYQRMPDFRRRFLQVCV
		l				NEINSRTPMRLSYIEKKKGRQT
		l				THIFFDMLRDLLKNVDLKGFEP
		l				DVRILLTKYSNSNGSQSPWMEE
						QIRDAWGSMVLKNVVRETDEV
İ		1				GKDTSLSTPAAPMVDSLIARVG
		1				VMARGNAITLPVCGRDVKFTL
		1				EVLRGDSVEKTSRVWSGAVSQ
1		1				GGESFIYMPLTGAAAFLSEMPC
		l				PERRNLKKQCGYSGFAACGYQ
						SQERKNSPRIVQSNDLTEAAYS
		1				LSRDQKRMLYLFVDQIRKSDGT
		l				LQEHDGICEIHVAKYAEIFGLTS
		1		i		AEASKDIRQALKSFAGKEVVFY
			1			RPEEDAGDEKGYESFPWFIKRA
		1				HSPSRGLYSVHINPYLIPFFIGLQ
						NRFTQFRLSETKEITNPYAMRL
		ļ.		ŀ		YESLCQYRKPDGSGIVSLKIDWI
						IERYQLPQSYQRMPDFRRRFLQ
				1		DHNSSPEREQNWMENEFDELT
1				1		EVGFRRWVITNSSELKEHVLTQ
						CKEAKNLDKRLQELLTRISNLE
						NIDDLMELKNTAQELHETYTSI
21867	52235	Α	21995	82	325	
21868	52236	В	21996	220	1173	
21869	52237	A	21997	I	1599	
21870	52238	A	21998	188	421	LO MEN ACTOVICE OF THE PROPERTY OF THE PROPERT
21871	52239	A	21999]1	596	MGMTDMGKSKKKSQGPPSFPP
	l	1				GGAPPPAIGAPAGRERPPGTGD
		1				PFNQRPCDNLKTCHTSHGSVM
						AETAVINHKKRKNSPRIVQSND
		1		1		LTEAAYSLSRDQKRMLYLFVD
				İ		QIRKSDGTLQEHDGICEIHVAK
	I	1				YAEIFGLTSAEASKDIRQALKSF
		1		1		AGKEVVFYRPGEDAGHEKGYE
1		1		1		SFPW/FIKRSPE*RRGKFPFTQM
L						GQD
21872	52240	A	22000	I	1527	
21873	52241	Α	22001	2	870	

SEQ ID		Met	SEQ ID NO:	Nucleotide location of first	Nucleotide location of last codon for last amino acid	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
NO:	of peptide sequence	nod	in USSN 09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21874	52242	Α	22002	I	4304	MAETAVINHKKRKNSPRIVQSN
						DLTEAAYSLSRDQKRMLYLFV
						DQIRKSDGTLQEHDGICEIHVA
			į		İ	KYAEIFGLTSAEASKDIRQALKS
					1	FAGKEVVFYRPEEDAGDEKGY
					İ	ESFPWFIKRAHSPSRGLYSNRFT
					1	QFRLSETKEITNPYAMRLYESL
					İ	CQYRKPDGSGIVSLKIDWIIERY
		1			l	QLPQSYQRMPDFRRRFLQCINA
		ĺ				GHEMTKAIAIAQFNDDSPEARK
		1				ITRRWRIGEAADLVGVSSQAIR
		L				DAEKAGRLPHPD
21875	52243	Α	22003	740	1159	SLPNLDNSAICSSSSSPTRTR*SL
						SVSAAALRRRLPSAISMTPDTL
		1				RPNAGVC*PVSRKEGMRSSSAS
		1				SVSSSWSRSLPDHTREVFSTLSP
		1				RSTSRVNFTSRPHTGKVMALPR
		1				AITPTRAINESTIETAGEDNEVSS
						TG
21876	52244	A	22004	664	1844	SGNLKACHPSHGSVMAETA\VI
						NHKKRKNSPR\IEQ*KDGYQQA
				l		YSLSRDQKRMLYLFVDQIRKSD
						GTLQEHD\GI\CQIHGAQYR*QIS
1						D*PFAEASKDIRQALKSFAGKE
				1		VVFYRPEEDAGDEKGYESFPW
				1		FIKRAHSPSRGLFSGHIPP\YLIPF
						FIGVKNRLTQI\RLFETKEIPHPS
1						AL\RYYESLGQDRK\PDGSSIGS
1		İ				LK\IDWIIERYQLPQSYQRMPDF
						RRRFLQHFLAHAGCPKGTQNFT FRMKFIIFSIKKVLPPVDTILAHD
						PVIHTCHLRESFGSVSPSSPKSN
	ŀ	ļ				RLPCPEVILFHYGESWNLLRAD
1	ŀ					ORLIFAKSWPRASRYQQGHQD
						LFILRSDLPSQVFIRDKLMERRN
						RRTGRTEKARIWGSDGQNGQE
						PGYVEAGCPPLLLTV
21877	52245	A	22005	3	272	POTVEAGETTEELTV
21877	52245	A	22006	I	528	
21879	52247	A	22007	461	831	LLNLATWRYLGTLTRGTAS\VA
210/9	32247	ľ^	22007	101	051	VAGILAALRITNNKLSNHVFVF
				1	1	OGAGEAAMGIAHLLVMALRRK
1				1		K\GTERTTATRKIWMVDSK\GLI
				1		COGEGSHLN/HHEKEMFAODH
	1			1		PEVNSLEEVVRLVKPTAM
	L			L	L	I LYMODELY VILLY KTIAM

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	l	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21880	52248	Α	22008	3	1894	EGEDRGLPRTMGAALGTGTRL
		1			1	APWPGRACGALPRWTPTAPAO
	ļ		ĺ			GCHSKPGPARPVPLKKRGYDV
		l				TRNPHLNKGMAFTLEERLOLGI
	İ	ļ				HGLIPPCFLSQDVQLLRIMRYY
						ERQQSDLDKYIILMTLQDRNEK
		1			1	LFYRVLTSDVEKFMPIVYTPTV
		l				GLACQHYGLTFRRPRGLFITIHE
		l				KGHLATMLNSWPEDNIKAVVV
		İ				TDGERILGLGDLGCYGMGIPVG
-		l				KLALYTACGGVNPQQCLPVLL
		1				DVGTNNEELLRDPL\YIGLKHO
		l				RVHGKAYDDLLDEFMQAVTD
		l				KFGINC\LI\QFEDFANANAFRLL
		l				NKYRNKYCMFNDDIQGTASVA
		l				VAGILAALRITNNKLSNHVFVF
		l				OGAGEAAMG\IAHLLVMALE\K
l		l				EGVPKA\EATRKIW\MVDF\KGL
						IVKGRSHLNHEKEMFAQD\HPE
		l				SNSLDEVVRLVKPTAIIGVAAIA
						EA\FTEQILRNMASF\RRAPIIFA
		1				LSNPPRKAECTA\EKCYRVTEG
		l				PRGFFASGKSFLRSVDL/ESMGK
		l				TFIPGGRGNNA*RVPRGWOLG
		l				VHSPGGDPGHIP\DEIFLPDSRA
		l				KLPQEVSEQHL\SQGRLYP\PLS
		l		1		TIRDVSLRIAIKVLDYAYKHNL
						V\SYYPEPKDKEAFCKIPGSYTP
						DYDSFYT/VDSYIWAQGKAMN
21881	52249	Α	22009	322	567	
21882	52250	C	22010	338	603	
21883	52251	A	22011	127	417	
21884	52252	A	22012	253 124	424 1235	M.C. I. DV.C. C. C. D.D. A.I. C. D.T.C. C. W.D.
21885	52253	A	22013	124	1233	YLCLLPKGQGDRALSRTSQWP
		ł				QMSQSQACGGSEQIPGIDIQLN
		1		i		RKYHTTRKLSTTKRFPTACWR
		1				KKVGAFTKIIEAMGFTGPLKYS
		l				KWEDLRLRALRIVY*LCGRKLD
		l				FEGFFSK\CS\MPDTFNSWFLINP
		l				YFHVWMCLVRMKQEGRSGKY
l		l				MCRIIVHFMWEDVQQRGRVM
		l	İ			GVNPYILKKNMILMTNHFYA\A
		l				ILGYDEGILSDDHGLAAALWK
		1		1		NLL\N\RKCEDPRHLELLVEYVR
		1		1		KQIQYLDS\MNGEDLLLTGEVS
	1		1			WRPLVEKNPQSILKPHSPTYND
		l				RGTFDGLGPPHGPPAGFRGTSR
ĺ				1		EEKCLVGPRTPARKWPELDLLN
						KHLSKYLAPICVEFPLSVPQESD
						LLGYRAWENPLALPGCPSSLRG

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence		Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21886	52254	A	22014	282	435	GGGASPAACSGSPDSS\HSATA GTGCRRPARPPPAPPTPTPWRS ROOGSRAS
21887	52255	A	22015	3	399	IVALPFGHHHSQTSPLPNLLQTA ACLLLHFLLLSGVETGRPGPWQ PRIRARGPPAPPGPARPAKPRRR /GCRGPAREACWYGCRRPARPP PAPPTPTHGAAGSREAERASEL/ C*GARPLRLGSAGTIMVSACVP
21888	52256	A	22016	279	872	KIPIISLSKLIQGASSKIIPTPQNF HLSPGTKRDSSFQPWSLSAFIIT GQCCSYIVRWGLWSPRULLVV KKYAALSAEMLLVKYEEPSPA ACSGSPDSSSFCNCW*PPAAGR L/ASAAQRPPTPNAHKRSRQQG SRASERAS/CKGRGRYGLGALG GRGGRALGGSRWPPPLPGETLF SGCKHRRRRGSDAAPGEAG
21889	52257	А	22017	106	398	NAAPFSRHAAFQGFSWAVCIFR LPAERALRLFPASCLVLPGGPS GVAPHGWPLPTTAPPLLQGVW RVEVGEHEMAEIFSSAKKEAAG ALQRPCIPVW

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
21890	52258	Α	22018	I	1806	MRGNTAGGPGDEKPDSTHPPW
						EGTLQEAQEMKKVVRFMWTS
						GGPDPOHWRGSGLYGOLVAO
l						MLHIDVAOVYMDSWWPRCST
l						LAWLRFIWTAGGPDAPHWLRS
						GLGGOLVAWMLHVGVAOVYV
l						DSWWPSCSASMWLSFMEHKO
						CLTLGYEVALFLQHFLSRAFVL
						VWVPRKEKAQVLROGLSLTFR
						ENPGVCVMSSYRPWLITAAAD
						MQPSKPGGTGSYCSYWSPTDN
						TPRLAAACTWNLGSSHGSAPG
						VRTFIEAGFSPPFLAPKALALTL
		ļ				SDSDSRWGPNPVYAQPQP/PEP
						AWGPNPV*GQPQPRNRPG\PEP
						CVCSTPTAEPPWGPNPVSTPTA
1						EPA WGPNPVYA/PTPTAEPPWG
						PNPV*GQPQP/REPAWGPNPVY
						GQPQPRNRPGS\PPQGNLYCSA
	ŀ					ALGATDPSQSWHQCSQNLLPA
						DKGAKREAPW/PRPPSGEVDHQ
l						VWHLHGWPLPTTAPPLLQGVW
						RVEQTPASHHRQPRPRQSSPST
1						KAPPVITVNQGPASHHRQPRPR
l						QSSPSTKAPPVITVNQGPASHH
		İ	1			RQPRPRQSSPST/TGPASHHRQP
						RPRQSSPSTKAPPVITVNQGPAS
						HHRQPRPRQSSPSTKAPPVITVN
	1		1	1		QGPASHHRQPRPRQSSPSTKAP
						PVITVNQGPASHHRQPRPRQSSP
l	l	l				STKAPPVITVNQGPASHHRQPR
l	1					PRQSSTLTKAPPVITVNQSPASH

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21891	52259	A	22019	27	1367	RILAGPARAEAGSASDRSTGHL
110).	02237	1			1.507	FPRGVGMDLCHPQPAELSSGET
		1				DELPRI*WHRKOLLEDIOKLKD
		1				EIADVFAQIDCFESAGDSRMAH
						KENELCIGRKKFNMDPROGRW
		l				LWRARATGCGGCMGAPAW\FL
	l			1		SGEGLNKTAIGTYLGER*ERVE
		1	ľ			P*RGRK*RCAGVYRCVDVQAL
		l				R*VVLGQGPGPQGWHSPSGWG
						CRDPRYCLCNPGVFQSTGARRG
		1				VGPRAPGPLQHCQA*ISQTRPPF
		l				ERFVSMNRGINNGSDLPEDQLR
		1				VREAQPTQPGPGESRRDLSLDG
1		l				WPFFNPDREGWLLKLGERPTD
	İ					TRRRTHTHARAGTHRCMHTTV
1						SRVLLGLPLPPPLPAQPTSQ/PPT
		1				SRC/LRLQDPE/CWSHWEIS*TE
						RGESRVVEGKHESYRISATSAE
ĺ				1		ERDQWIESIR*GVPRSGDGFPSP
						SRRPCFFWVLRDSWRWHWGL
						VTLRVPSPAAPGDP
21892	52260	Α	22020	140	356	
21893	52261	A	22021	2	1147	APARGPAVASGPSPGPAAEPVQ
		l				NTETAAMTTHVTLEDALSNVD
		l				LLEELPLPDQQPCIEPPPSSIMYQ
		l				ANFDTNFEDRNAFVTGIARYIE
		1				QATVHSSMNEMLEEGHEYAV
		1				MLYTWRSCSRAIPQVKCNEQP
		1				NRVEIYEKTVEVLEPEVTKLMK
						FMYFQRKAIERFCSEVKRLCHA
	1	l				ERRKDFVSEAYLLTLGKFINMF
		l				AVLDELKNMKCSVKNDHSAY
	1	1		l		KRAAQFLRKMADPQSIQESQNL
						SMFLANHNRITQCLHQQLEVIP
	1	1		I		GYEELLADIVNICVDYYENKM
1	1	1		I	1	YLTPSEKHMLLKVMGFGLYLM
	1	1				DGNVSNIYKLDAKKRINLSKID
						KFFK/HAAGGAPFRRHADRAGQ
	1	1		1	I	IH*DQCSL*REQVQVDVHPEQH
1	1	ı	l			QPPVQYLRADGSDPG

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	
	sequence	1	09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nuclcotide insertion)
		1				
21894	52262	Α	22022	47	1581	ALVLMYLASSICMSPKRGTTCS
1		1		1		CLERGSRCPTSEPPPPPEPPPGRS
1		1		i		SRCRPGLGPYGGGGEKMADDP
						SAADRNVEIWKIKKLIKSLEAA
ŀ						RGNGTSMISLIIPPKDQISRVAK
		1		1		MLADEFGTASNIKSRVNRLSVL
		1		1		GAITSVQQRLKLYNKVPPNGLV
		1				VYCGTIVTEEGKEKKVNIDFEP
		1				FKPINTSLYLCDNKFHTEALTA
		1				LLSDDRQVWDFIVIGG/SVGALF
		1		1		GHTPKGNTRGGPWHKFTVGIFP
		1				K\KHG*EGGQ\SALRFARLRME
1		1				KRHNYVRKVAETAVQLFISGD
1		1	1			KVNVAGLVLAGSADFKTELSQ
						SDMFDQRLQSKVLKLVDISYG
				1		GENGFNQAIELSTEVLSNVKFIQ
		ĺ		1		EKKLIGRYFDEISQ/DLTGKYCF
ļ		1		1		GVEDTLKALEMGAVEN\LIVYE
1				l		NL\DIMRYVLHCQGT\KEEKILY
		1		1		LTPEQEK\DKSPFH\DKETGQE\L
		1				ELIESMPLLEWFANNYKKFGA\
	1	1		1	i	TLEMFTDKSQKGSPV**KDLGG
		1				IGG\ILRYQSRFPGEWNTKKET
				l		MNFLTLMTTR
21895	52263	Α	22023	1	296	VEDERVCAGPA WERQAGQERP
						ARKVQGKAPEAEGKHGCLLDI
	i	1		1		LVCTYLAEKGLSGSCGLTEALV
1		1				AFGEGSSLGRKNCRDPWGSLR
						QEPHWSDP/WSGPPERCKGKPQ
1						RRRGSTDAFWTSWSART*PRRG
		1		1		SLAAVG*QRHWWPLGRAAV*E
						ERTAETPGAPSGRSLTGQTLGS
						LHV
21896	52264	A	22024	5	309	LPDADLFCPACGAAAGRARSA
						GMRPVFAVSVARTPSPR/PPPAE
						PQFPRLPCGSIGSPFFRDIDTIQK
						FPDMLSSFFFRDIDTIQKFPDML
						VFNCCCLLNQSR
21897	52265	A	22025	1	258	RGRSRIARSASGPRPALVRPPAR
						PPAP*TPRSWSCWSSC*PRSASA
				1		TGSPSA*ATDAHADSSKAMLPE
		1		1		PTSSISKFSTLQTVPFRL
21898	52266	Α	22026	119	692	PSSHSVRTATYSSLRQSAVSTRT
	1	1				STTTTLAFMARAGGRAGGRAR
1		1	l	1		VGGRTPSGQCGCPACGAAAGR
		1	l	1	1	ARSAGMRPVFAVSVARTPSPR/
	1	1	l	1	1	PPPAEPQFPRRPQR\GAPAPSGG
	1	i	l	1	İ	GASLPAPRALASSIPAQLMKPG
						RAKGSAGNLHPG\EGRPGARRS
		1				DPAGAARSLACP*IWPKQTPSP
	1	1	l	1		LASSSSFFLSETPECAH

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide sequence	hod	in USSN 09/540,217	location of first codon for peptide sequence	codon for last amino acid of peptide sequence	*=Stop codon, /=possible nucleotide deletion, \possible nucleotide insertion)
21899	52267	Α	22027	2	246	
21900	52268	Α	22028	1	927	
21901	52269	A	22029	251	1077	VTMGKVLAVSSLPAGPPPPPVP
		l				ALVGLPPPPP*HPGFRLPPLGGG
		1				LGARTSVGRGLERTPGAATASA
		1				AGGAEDGACRCLPNPCTFEECH
		1		ŀ		RKCKEL*MEGVKFTENKAL/SS
		1				KMAIQTQQSKFVKWQVDGEYR
ĺ		1				GSDFTVDVTLWNPDVLMGSGI
		ļ		l		LVAHYLKSITPCLALGSELVYH
		ł				RRPGEEGTVMSVAGKYTLNNW
		l				LATVDVEFEASTRMQDTNVSF
		i				GYQLDLPKANLLFKGSVDSNW
		i				IVGATLEKKLPPLPLTLALGAFL
		l				NHRKNKLRSGFGLTIS
21902	52270	A	22030	1	1171	GGGSGFGCAWRTGWERSPGRE
		1				QAPPPATMGNVLAASSPPAGPP
					1	PPPAPALVGLPPPPPSPPGFTLPP
		l				LGGSLGAGTSTSRSSERTPGAA
						TASASGAAEDGACGCLPNPGTF
		1				EECHRKCKELFPIQMEGVKLTV
				1		NKGLSNHFQVNHTVALSTIGES
		l				NYHFGVTYVGTKQLSPTEAFPV
						LVGDMDNSGSLNAQVIHQLGP
						GLRSKMAIQTQQSKFVNWQVD
						GEYRGSDFTAAVTLGNPDVLV
				1		GSGILVAHYLQSITPCLALGGEL
						VYHRRPGEEGTVMSLAGKYTL
						NNWLATVTLGQAGMHATYYH
						KASDQLQVGVEFE\ASTRMQDT
	ľ					SVSFGYQLDLPKANLLFKGSVD
ł						SNWIVGATLEKKLPPLPLTLAL
						GAFLNHRKNKFQCGFGLTIG
21903	52271	Α	22031	14	434	CYCQGILSPPPCPPFLLGSAQTS
					1	AICSWVRGVPAESSTSSFPKAP*
				1	1	VALESRGEAPTLHLPVTSRFLQ
		1		1	1	CVSSEQECVPWKP/HSSPRPRFL
		1			1	DISPSPTCVRL*APGPVPFDPHQ
1		1			1	KTWRSPLGTRAQGVGPRDRDS
i	1	1		1	1	CRIVPG

SEQ ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217		of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21904	52272	Α	22032	989	1859	VYGDSRWSLALSPRLECSGA\IS
						AH*NLCLPGSSDSPASRITGISG
						ARHHAQLI/L/YVFLVEMRFHH
1						VGQAGLKLLTSGNP/HHLGLPK
						CWDYSRKPPPRPPRPII\FSFFFL
						RWSLALVAQAGMQWDDLSSL
						QPLPPGFK*FSCLSLLRSWDYG
	ļ					CPPPRLANFVCVCVCVLV/VDG
						GFTMLARLGLELLTSGDLPPFG
				1		LPKCLGFTGMSHCARPIFFF\FE
						MESCFATQAGVQWCDLSSLQP
						LPPRFK*FSCLSLLSSWDYRHM
l						PPCLANF/CFGIFSRDRVSSCWP
21005	60077	١.	22022	157	376	GRSQTPDLK
21905	52273	A	22033	157	370	SHQDFMRTAANLLQTGWCTGS NTGAGARWGLCRASLSRCRCA
						APSAPCSGSRCS*RSWKGTHPS
						LPPRCRGRS
21906	52274	A	22034	298	399	LITRERGRS
21907	52275	À	22035	1	185	
21908	52276	A	22036	311	516	WKAERRTRHLLQTGWCTGSNT
		ľ.				GAGARWGLCRASLSRCRCAAP
	ŀ					SAPRSGSRCS*RLWKGTHPSLPP
l						RCR
21909	52277	Α	22037	I	1487	MMGHSSAIPLTATPGELKGQSP
1						TKMPDPELGCQGAKSQGCSRN
						ARHQKARSMPLQDQHLALAIL
1						LELAVQRGTLSQMLSAILLLLQ
1						LWDSRAQETDNERSAQGTSTL
1						LLSLLQTFQSIICSKDTPPSEGN
1	Ì					MHLLSGPLSPSESFLRESFFTVQ
1						NCRNNEEVTLICKADLENHNK
ł						DGGFWIVIDEKVYDIKDFQTQS
}				i		LTGNSILAQFAGENPVVALEAA FEFEVTRESMHAFCVGQYLEVR
į.		ŀ				LYALSDAEDGRGHPLMASVIHL
						LWRLQTSQIHYSYNEEKDEDH
1					i	CSSOWAHLPANRDCSHRWALG
l						DHSQAFLQAIADNNIQDHNVKT
1						HQEQGRSYKEVCTPVIERLRFL
1	1	1	l	l		SNELRPAVGNDLSIISEFKLLSSL
1		1	l	l		PRWRRIAQKIIRERRKKRIPKKP
		1	l	l		ESTADEEKIGNEESDLEEACILP
		1	l	l		HSPINVDKRPIAIKSPKTITSENP
						LG/REPGEHPASPLPPDDAQHA
						HPAAQRKQPRPPAQFRHAGPHS
		1		l		DGTAPDWPQL
		_				

SEQ ID	SEQ ID NO:	Mct	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X-Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
1	sequence	ı	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				scquence		
		L				
21910	52278	Α	22038	263	375	AGPRRMRRISAWAVSTPLTDSP
						SPGHQPA/GEVAGAGSF**HPP/P
						PCPSRYCPQMTPPPPPPAPPPAL
1						PPPPPPAPASPPLPPAPSPPPHAP
						PQALPPPPALPPPPASPPLLPPA
				•		LSPPLPAPP/PPSAPPASPPPAPPP
						PPAPPPSPPPAPPPSAPSSPAPLPP
				i		APASPP\SPAPPPPAPPPAPHPPSP
		ŀ				PAPPCPPLPRPRGPSVPQEKVHQ
						V*IPVP\PAGEGGPAPGRIWPQG
1		ŀ	i	ł		WRRAGKPPTWEEALAAFPPWT
1		ļ.				ALPPASA VPA OPPRAH* VAPAL
						*WALHRRSDSDSDSSNLSPRIPG
						TGGORROPR*DS*APACSEVAG
	ĺ	1				AGSF
21911	52279	A	22039	1	2001	1.051
21912	52280	A	22040	1846	7725	PEPFCHRAAHWSNQYCPFQFQ
21912	32260	<u> </u> ^	22040	1040	1123	DTDSPROTLTVLIKDNGEPSLST
						TATLTVSVTEDSPEARAEFPSGS
1		l				
						APREQKKNLTFYLLLSLILASV
						GFVVTAFGVIIFKVYKWKQSRD
i						LYRAPVSSLYRTPGPSLHADAV
					1	RGGLMSPHLYHQVYLTTDSRR
	ŀ	l				SDPLLKKPGAASPLASRQNTLR
						SCDPVFYRQVLGAESAPPGQIR
	1					YPVPEESQEGTFVGNVAQDFLL
					1	DTDSLSARRLQVAGEVNQRHF
						RVDLDSGALLIKNP
21913	52281	Α	22041	108	340	PQPSQVMSFHGDSGSCRRWAT
1					1	AGT*ATSPPCSSSIFLRRMHSGH
						WCSCWPVRGTPCRDFTAQMAG
1						PSRGSKTNRSMW
21914	52282	Α	22042	275	752	EKTHKTCRCGRGCGKRGTL*H
1				l		CWWECNLLQPLWKMVW/KWL
				!		KELKVELLCDLAVPL/LGINPEE
						KKSLYEKDTCT/R/LFMAAQLAI
1	l	1	1	l		AKKWNOPKCPSINKWLOKLW
	l	l		1		YIYMMEYYSAIKRN\LTAFAAT
1	l	1	1			WMRLETIILSQGDPLESTCSRSQ
1						ANROEITSVPKA
21915	52283	A	22043	25	202	DAEAWAMELADVGA*ASSQG
21913	34283	l ^A	22043	23	202	
1	l				l	APQPEEPAASLGVNEKGGAGG
						RSGRRPLGRDRPRPTRLL

IQKLSFGEDNSYVILSGPPQSF EDSFKKCSSEVEAKNKIEELL LLNRVCQDGRKPHTVRLIRF SSEKHVGRESRQCHIPSHVIQ GTGNYDVMPPWDLIMKLF MVNVKMPFRLTLLSMCFCSL AVNTATTRLIDYYLMPTISITS SGKHSFKMKDTHMEDFPKDI TNRDFLPSGRIESTRTRESPLE TNFSKEKDINEFPLCSLPEGV EVFKQLPVDIQEELISGKSREF QGKGSVSCPLHASRGVLSFF KQMQDIPINFRDHLSSSKQVS VSPCEPGTSGFNSSSSSYMSS DYSYYLDNRLKDERISQGFK QGFHFTNSNPAIVSAFHSIPF	SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
	NO:		hod				
21916 S2284 A 22044 I 2290 MEKLGVEPEEGGGDDEED: AWAMELADVGAAASSQGAI PEEPAASLGVNEKGVHDQVI PINASSR VITHVDLDCFYAQV MISNPELKDKPLGVVQKYLV TCNYEARKLGVKKLMNVRE KEKCPQLVLVNOEDLTRYRE SYKVTELLEEFSPVVERLOFI NFVDLTEMVERLQQLQSDI SAVTVSGHYVNNQSINLLLDV IRLLVGSQIAAEMREAMYNQ GLTGGAGVASNKLLAKLVS FKPNQOTVLLPESCQHLHISL HIKEIPGIGYKTAKCLEALGN VRDLQTESPKLEKELGISVA IQKLSFGEDNSPVILSOPPQSF EDSFKKCSSEVEAKNIEELL LLNRVCQDGRKPHTVRLIRE SSEKHYGRESRQCHIPSHVQ GTGNYDVMPPNDILMKLF MYNVKMPFRLTLLSNCFCSL AVNTATTRLIOPYMPNISTI SGKHSFKMKDTHMEDFPKDI TNRDFLPSGRIESTRTRESPL TNRSKENDIPFCLSPEGV EVFKQLPVDIQEELISGKSRE QGKGSVSCPLHASRGVLSFS KQMQDIPINPRDHLSSKQVS VSPCEPGTSGFNSSSSSYMSS DYSYYLDNRLKDERSGQFK QGFHFTNSNPAVSAFHSFP QSEQLFSRNHTTDSHKQTVA		sequence		09/540,217		of peptide sequence	deletion, \=possible nucleotide insertion)
AWAMELADVGAAASSQGAI PEPAASLGVNEKGVHDQVI PNASSLGVNEKGVHDQVI PNASSLGVNEKGVHDQVI PNASSLGVNEKGVHDQVI PNASSLGVNEKGVHDQVI PNASSLGVNEKGVHDQVI MISNPELKDKPLGVQGYTLV TCNVEARKLJGVKKLMNVER KEKCPQLVLVNGEDLTRYRE SYKVTELLEFSPVVERLOFL NFVDLTEMVEKRLQQLQSDI SAVTVSGHYVNNQSINLLDV IRLLVGSQIAAGMEAMYKC GLTGCAGVASNKLLAKLVS FKPNQOTVLLIPESCQHLIHSL HIKEIPGIGYKTAKCLEALON VRDLQTFSPKLEKELGISVA IQKLSSGEDNSPVLSGPPQSS EDSFKKCSSEVEAKNKIEELL LLINEVCQDGKFHTVRLIIRE SSEKHVGESRQCHIPSHVIQ GTGNYDVMPPMVDILMKLF MVNVKMPFRLTLLSMCFCSL AVNTATTRLIDYYLMPTISIT SGKHSFKMKDTHMEDFPKDI TNRFOLPSGRIESTETRESPL TNFSKEXDIPEFLCSIPEGV EVFKQLPVDIQEELSGKSREI QGKGSVSCPLHASRGVLSFFE KQMQDIPINFBFLGS.PGEV EVFKQLPVDIQEELSGKSREI QGKGSVSCPLHASRGVLSFFE KQMQDIPINFBFLISSSSVSSS DYSYYLDNRLKDERISGGRE QGKGTSTSTRESSPLT TNFSKEXDIPEFLGS.PGEV SVSTCEFGTSGFNSSSSSYMSS DYSYYLDNRLKDERISGGRE QGFHTNISNPAVSAFHSIFP QSEQLFSRNHTTDSHKQTVA					sequence		
AWAMELADVGAAASSQGAI PEPAASLGVNEKGVHDQVI PNASSRVIVHVDLDCFYAQV MISNPELKDKPLGVQGYYLV TCNYEARKLJGVKKLIMYNEK KEKCPQLVLVNGEDLTRYRR SYKVTELLEFSPYVERLOFE NFVDLTEMYEKRLQQLQSDI SAVTVSGHYVNNQSNLLDV IRLLVGSQIAAGMEAMYNC GLTGCAGVASNKLLAKLVS FKPMQOTVLLPESCQHLIHSL HIKEIPGIGYKTAKCLEALON VRDLQTFSPKLEKELGISVA IQKLSSGEDNSPVLSGPPQSS EDSFKKCSSEVEAKNKIEELL LLNRVCQDGKPHTVRLIRR SSEKHVGESRQCHIPSHVQ GTGNYDVMPPMVDILMKLF MVNVKMPFRLTLLSMCFCSL AVNTATTRLIDYYLMPTISIT SGKHSKMKDTHMEDFPKDI TNRDFLPSGRIESTETRESPL TNFSKEXDIPSFLCSSPCSI QGKGSVSCPLHASRGVLSFF KQMQDIPNTPGDLISSKGVSV VSCEFGTSGFNSSSSSYMSS DYSYYLDNRLKDERISGRE QGKGSVSCPLHASRGVLSFF KQMQDIPNTPGHLSSSKGVS VSVECFGTSGFNSSSSSYMSS DYSYYLDNRLKDERISGRE QGKGTSVSVLSFF KQMQDIPNTPGLISSKGVS VSVECFGTSGFNSSSSSYMSS DYSYYLDNRLKDERISGRE QGKGTSTRINSPAVSAFHSIFP QSEQLFSRNHTTDSHKQTVA	21016	52284	ΙΔ	22044	lı .	2200	MENI CAEBEECCCODEEDAE
PEPPASLGVNEKGVHÖVI PNASSRVIVHVDLDCFY AQV MISNPELKBKPLGVQQKYL. TCNYEARKLGVKKLMNYEE KEKCPQ.VLV.NORGD.TRYRE SYKVTELLEFSPVVERLGFE NFYDLTEMYEKRLQQLGSDI SAVTVSGHYVNQSNLLDV IRLLVGSQIAAEMREAMYNQ GLTGCAGVASNKLLAKLVSQ FKPNQQTVLLPESCQHLIHSL HIKEIPGIGYKTAKCLEALGR VRDLQTFSFRLERELGISVA IQKLSFGEDNSPVILSGPPQSF EDSFKCSSEVEAKNIEELL LLNRVCQDGRKPHTVRLIIR SSEKHYGRESRQCHIPSHVQ GTGNYDVMPPVDLMKLFF MYNVKMPFRLTLLSNCFCSL AVNTATTRLIGYYLMPTISTT SGKHSFKMKDTHMEDFFXDL TNRFEKENDFFLCSLFGEV EVFKQLPVDIQEELISGKSREI QGKGSVSCPLHASTGVLSFFS KQMQDIPINFRDHLSSSKQVS VSPCEPGTSGFNSSSSYMSS DYSYYLDNRLKDERISGGRS GQFHFTNSNPAVSAFHSFP QSEQLFSRNHTTDSHKQTVA 21917 \$2285 A 22045 2 141	21910	32204	^	22044	ľ	22,50	
PNASSR VIVHVDLDCFY-ÀÖV MISNPELKDKPLGVQQKYLV TCNYEARKLGVKKLMNVRE KEKCPQLVLVNGEDLTRYR SYKYTELLEFSPVYBELGFI NFVDLTEMVEKRLQQLQSDI SAVTVSGHVYNNQSINLLDV IRLLVGSQIAAEMREAMYNG GLTGCAGVASNKLLAKLVS FKPNQGTVLIPESCQHLIHSL HIKEIPGIGYKTAKCLEALGN VRDLQTFSPKILEKELGISVA IQKLSFGEDNSPVLSGPPQSF EDSFKKCSSEVEAKNKIEELL LLNRVQDGRFHTVRLIRR SSEKHVGRESRQCHIPSHVQ GTGNYDVMPPMVDLMKLFI MVNVKMPFRLTLLSMCFCSL AVNTATTR.IDYYLMPTISIT SGKHSKMKDTHMEDFFKD) TNRDFLPSGRIESTRTRESPL TNFSKEKDNEFPLCS.PEGV EVFKQLPVDIQEELSGKSREI QGKGSVSCPLHASRGVLSFF KQMQDIPNTPRDHLISSSKQVS VSPCEPGTSGFNSSSSSYMSS DVSYYLDNRLKDERISGREK QGKGSVSYCHASRGVLSFF KQMQDIPNTPRDHLISSSKQVS VSPCEPGTSGFNSSSSSYMSS DVSYYLDNRLKDERISGREK QGFHFTNSNPAVSAFHSIFP QSEQLFSRNHTTDSHKQTVA					l		
MISNPELKOKPLGVOQOKYLV TCNYEARKLGVKKLMNYRE KEKCPQLVLVNGEDLTRYRE SYKVTELLEFSPVVERLGFI NFVDLTEMVERLQCLQSDI SAVTVSGHVYNNQSINLLDV IRLLVGSQIAAEMREAMYNQ GLTGCAGVASNKLLAKLVS FKPNQOTVLLPESCQHLHISL HIKEIPGIGYKTAKCLEALOR VRDLQTFSPKLEKELGISVA IQKLSFGEDNSPVILSOPPQSF EDSFKKCSSEVEAKNITEELL LLNRVCQDGRKPHTVRLIRE SSEKHYGRESRQCHIPSHVIQ GTGNYDVMPPMVDILMKLFI MYNVKMPFRLTLLSNCFCSL AVNTATTRLIOTYLLIPS SGKHSFKMKDTHMEDFPKDI TINDFLPSGRIESTRTRESPL TNFSKENDIPFCSLPGEVV EVFKQLPVDIQEELISGKSREI QGKGSVSCPLHASRGVLSFS KQMQDIPINPRDHLSSKQVS VSPCEPGTSGFNSSSSSYMSS DYSSYLDNRLKDERSGQRE QGFHFTNISNPAVSAFHSFP QSEQLFSRNHTTDSHKQTVA					l		
TCNYEARKLGVKKLMNVEC KEKCPQLVLVNGEDLTRYRE SYKYTELLEEFSPVVERLGFT NFVDLTEMVEKRLQQLQSDI SAVTVSGHVYNNQSINLLDV IRLLVGSQIAAEMREAMYNC GLTGCAGVASNKLLAKLVSC FKPNQGTVLLFESCQHLIHSL HIKEIPGIGYKTAKCLEALGN VRDLQTFSFKLIFKELGISVA IQKLSFGEDNSPVILSGPPQSF EDSPKKCSSEVEAKNKIEELL LLNRVCQDGRKPHTVRLIFR SSEKHYGRESRQCHIPSHVQ GTGNYDVMPPMVDLMKLF MYNVKMPFRLTLLSNCFCSL AVNTATTRLIDYYLMPTISIT SGKHSFKMKDTHMEDFFKDI TNRDFLPSGRIESTRTRESPL TNRSKENDIFFLCSLPGVV EVFKQLPVDIQEELSGKSREI QGKGSVSCPLHASRGVLSFF KQMQDIPNPRDHLSSSKQVS VSPCEPGTSGFNSSSSSYMSS DYSYYLDNRLKDERISGGRE KQMGDIFNFRDHLSSSKQVS VSPCEPGTSGFNSSSSYMSS DYSYYLDNRLKDERISGGRE GGFHTNSNPAVSAFHSIFP QSEQLFSRNHTTDSHKQTVA							
KEKCPQLVLVNGEDLTRYRE SYKVTELLEFSPVVERLGETE NFVDLTEMVEKRLQQLQSDI SAVTVSGHVYNNQSINLLDV IRLLVGSQIAAEMREAMYNQ GLTGCAGVASNKLLAKLVSS FKPNQOTVLLPSCGHLHISL HIKEIPGIGYKTAKCLEALGI VRDLGTFSFKLEKELGISVA IQKLSFGEDNSPVLSSPQSF EDSFKKCSSEVEAKNKIEELL LLNRVCQDGRKPHTVRLIRE SSEKHYGRESQCHIPSHVQ GTGNYDVMPPMVDILMKLF MYNVKMPFRLTLLSNCFCSL AVNTATTRLDYYLMPTISTI SGKHSFKMKDTHMEDFFKD TNRSKENDINEFPLCSPFGCV EVFKQLPVDIQEELISGKSREI QGKGSVSCPLAASRGVLSFF KQMQDIPNPRDHLSSSKQVS VSCEGTGGFTSGNSSSSSYMSS DYSSYLDNRLKDERISGRAF QGFHFTNSNPAVSAFHSIFP QSEQLFSRNHTTDSHKQTVA							, ,
SYKVTELLEEFSPVVERLGEL NFVDLTEMVEKRLQQLQSDI SAVTVSGHVYNNQSINLLDV IRLLVGSQIAAEMREAMYNC GLTGGAGVASNKLLAKLVS FKPNQQTVLLPESCQHLIHSL HIKEIPGIGYKTAKCLEALGN VRDLQTESFKLEKELGISVA IQKLSFGEDNSPVILSGPPQSF EDSFKKCSSEVEAKNIEELL LLNRVCQDGRKPHTVRLIRE SSEKHVGRESRQCHIPSHVQ GTGNYDVMPPVDLIMKLF MYNVKMPFRLTLLSNCFCSL AVNTATTRLIOTYLMPTISTIS SGKHSFKMKDTHMEDFPKDI TNRDFLPSGRIESTETRESPL TNFSKEKDINEFPLGSLPGEV EVFKQLPVDIQEELSGKSRE QGKGSVSCPLHASRGVLSFS KQMQDIPINPRDHLSSSKQVS VSPCEPGTSGFNSSSSSYMSS DYSSYLDNRLKDERISGPK QGFHFTNSNPAVSAFHSFP QSEQLFSRNHTTDSHKQTVA					İ		
NFVDLTEMVEKRLQQLQSDI SAVTVSGHVYNNQSINLLDV IRLLVGSQIAAEMREAMYNC GLTGCAGVASNKLLAKLVSC GLTGCAGVASNKLLAKLVSC FKPNQGTVLLPESCQHLIHSL HIKEIPGIGYKTAKCLEALGI VRDLQTFSPKILFKELGISVA IQKLSFGEDNSPVILSGPPQSF EDSFKKCSSEVEAKNKIEELL LLNRVQQDGKPHTVRLIHS SSEKHVGRESRQCHIPSHVQ GTGMYDVMPPMVDLIMKLEI MVNVKMPFRLTLLSMCFCSL AVNTATTRLIDYYLMPTISIT SGKHSFKMKDTHMEDFPKD) TNRDFLPSGRIESTRTRESPL TNFSKEXDIPSFLCSLPGGV EVFKQLPVDIQEELSGKSREI QGKGSVSCPLHASRGVLSFF KQMQDIPINFBPLISSSKQV VSPCEPGTSGFNSSSSSYMSS DVSVYLDNRLKDERISGFK QGFHFTNSNPAVSAFHSIFP QSEQLFSRNHTTDSHKQTVA			l				
SAVTVSGHYVNNQSINLIDV IRLLVGSQIAAEMREAMYNQ GLTGCAGVASNKLLAKLVSC FKPNQOTVLLPESCQHLHISL HIKEIPGIGVKTAKCLEALGI VRDLQTFSPKILEKELGISVA IQKLSRGEDNSPVILSGPPQSF EDSFKCSSEVEAKNIEELL LLNRVCQDGRKPHTVRLIRE SSEKHYGRESRQCHIPSHVIQ GTGNYDVMPPMVDILMKLF MYNVKMPFRLTLLSMCFCSL AVNTATTRLIDYYLMPTISTI SGKHSFKMKDTHMEDFPKDI TINFSKEKDINEFPLCSLPEGVV EVFKQLPVDIQEELISGKSREI QGKGSVSCPLHASRGVLSFF KQMQDIPINPRDHLSSSKQVS VSPCEPGTSGFNSSSSSYMSS DYSSYLDNRLKDERISGREE QGKGSVSCPLHASRGVLSFF KQMQDIPINPRDHLSSSKQVS VSPCEPGTSGFNSSSSSYMSS DYSSYLDNRLKDERISGREE QGFHFTNISNPAUVSAFHSIFP QSEQLFSRNHTTDSHKQTVA							
IRLLVSSQIAAEMREAMYNC GLTGCAGVASNKLLAKLVSC FKPNQGTVLLPESCQHLIHSL HIKEIPGIGYKTAKCLEALOR VRDLQTESPKLIFEKELGISVA IQKLSFGEDNSPVILSGPPQSF EDSFKKCSSEVEAKNKIEELL LLNRVQQDGRFHTVRLIRR SSEKHVGRESRQCHIPSHVQ GTGNYDVMPPMVDLIMKLF MYNVKMPFRLTLLSNCFCSL AVNTATTRLIDYYLMPTISIT: SGKHSFKMKDTHMEDFFKDL TNRDFLPSGRIESTRTRESPL TNRSKENDIFFLCSLPGOV EVFKQLPVDIQEELSGKSREI QGKGSVSCPLHASRGVSFS KQMQDIPINPRDHLSSKQVS VSPCEPGTSGFNSSSSSYMSS DYSYYLDNRLKDERISGGRE KQMGPFTNSNPAVSAFHSFP QSEQLFSRNHTTDSHKQTVA			l				
GLTGGAĞVASNKLLAKLVSĞ FKPNQTVLLPESCQHLIHSL HIKEIPGIGVKTAKCLEALGIB VRDLQTFSPKLLEKELGISVA IQKLSFGEDNSPVILSGPPQSF EDSFKKCSSEVEAKNIKIEELL LLNRVQDGRKPHTVRLIRE SSEKHYGRESKQCHIPSHVQ GTGNYDVMPPMVDILMKLFI MVNVKMFRLTLLSMCFCSL AVNTATTRLIDYYLMPTISTI SGKHSFKMKDTHMEDFPKDI TNRDFLPSGRIESTRTRESPLE TNFSKEKDINEFPLCSLPEGVV EVFKQLPVDIQEELISGKSREI QGKGSVSCPLHASRGVLSFF KQMQDIPINPRDHLSSSK QVS VSPCEPGTSGFISSSSSYMSS DYSYYLDNRLKDERISQFRK QGFHFTNSNPALVSAFHSIFP QSEQLFSRNHTTDSHKQTVA			ĺ		l .		
FKPNQQTVLLPESCQHLHSL HIKEIPGIGYKTAKCLEALGN VRDLQTFSFKILEKELGISVA IQKLSFGEDNSPVILSOPPQSF EDSFKCSSEVEAKNIEELL LLNRVCQDGRKPHTVRLIIR SSEKHVGRESRQCHIPSHVQ GTGNYDVMPPNDILMKLF MYNVKMPFRLTLLSNCFCSL AVNTATTRLDYYLMPTISTI SGKHSFKMKDTHMEDFPKDI TNRDFLPSGRIESTRTRESPL TNRSEKDINEFFLCSIPEGV EVFKQLPVDIQEELSGKSRE QGKGSVSCPLHASRGVLSFF KQMQDIPINPRDHLSSSKQVS VSPCEPGTSGFNSSSSSYMSS DYSYYLDNRLKDERISQFK QGFHFTNSNPAUVSAFHSIFP QSEQLFSRNHTTDSHKQTVA			l		l		
HIKEIRĞIGYKTAKCLEALGI VRDLQTFSPKILEKELĞISVA IQKLSFGEDNSPVILSGPPQSF EDSFKKCSSEVEAKNKIEELL LLNRVQQDGKPHTVRLIIR SSEKHYGRESRQCHIPSHVQ GTĞNYDVMPPMVDLIMKLIF MVNVKMPFRLTLLSMCPCSL AVNTATTRLIDYYLMPTISIT SĞKHSFKMKDTMHEDFPKDL TNRDFLPSGRIESTRTRESPLL TNFSKEXDIPSFLCS.PEGV EVFKQLPVDIQEELSĞKSREI QĞKGSVSCPLIASRQVLSFF KQMQDIPINPBDHLSSSKQVS VSPCEPGTSĞFNSSSSSYMSS DYSYYLDNRLKDERISĞĞRK QĞFHFTNSVPAVSAFHSIFP QSEQLESRNHTTDSHKQTVA							
VRDLQTFSPKLEKELGISVA IQKLSFGEDNSPVLSSPPQSF EDSFKKCSSEVEAKNKIEELL LLNRVCQDGRKPHTVRLIRF SSEKHYGRESGQHISPHVQ GTGNYDVMPPMVDILMKLF MYNVKMPFRLTLLSMCFCSL AVNTATTRLIDYYLMPTISTI SGKHSFKMKDTHMEDFPKDI TNRSHEKDINEFPLCSLPEGV EVFKQLPVDIQEELISGKSREI QGKGSVSCPLAASRGVLSFF KQMQDIPINPRDHLSSSKQVS VSPCEPGTSGFNSSSSSYMSS DYSSYYLDNRLKDERSGQFK QGFHFTNSNPAUVSAFHSIFP QSEQLFSRNHTTDSHKQTVA			1				
IQKLSFGEDNSPVILSOPPOSE EDSFKKCSSEVEAKNKIEELL LLNRVQDGRKPHTVRLIRR SSEKHVGRESRQCHIPSHVQ GTGNYDVMPPMVDILMKLF MYNVKMPFRLTLLSNCFCSI AVNTATTRLIDYYLMPTISIT: SGKHSFKMKDTHMEDFFKDI TNRDFLPSGRIESTRTRESPLL TNFSKEKDINEFFLCS.PEGV EVFKQLPVDIQEELSGKSREI QGKGSVSCPLHASRGVLSFFS KQMODIPINPRDHLSSSKQVS VSPCEPGTSGFNSSSSSYMSS DYSYYLDNRLKDERISGGFK QGFHFTNSNPAVSAFHSIFP QSEQLFSRNHTTDSHKQTVA			l				
EDSFKKCSSEVEAKNKIEĒLI LLNRVCQDGRKPHTVRLIRR SSEKHYGRESKQCHIPSHVIQ GTGNYDVMPPMVDILMKLF MVNVKMPFRLTLLSMCFCSL AVNTATTRLIDYYLMPTISTT SGKHSFKMKDTHMEDFPKDI TNRPFLPSGRIESTKTRESPLL TNFSKEKDINEFPLCSLPEGV EVFKQLPVDIQEĒLISKSKEI QGKGSVSCPLAHSRGVLSFF KQMQDIPINPRDHLSSSKQVS VSPCEPGTSGFNSSSSSVMSS DYSYYLDNRLKDERISQFK QGFHFTNSNPAUVSAFHSFP QSEQLFSRNHTTDSHKQTVA					l		VRDLQTFSPKILEKELGISVAQR
LLNRVCQDGRKPHTVRLIRE SSEKHYGRESRQCHIPSHVIQ GTGNYDVMPPMVDILMKLF MYNVKMPFRLTLLSNCFCSI. AVNTATTRLJOYYLMPTISTI SGKHSFKMKDTHMEDFPKDI TINRDFLPSGRIESTRTRESPLE TINFSKEKDINEFPLGS.PEGVV EVFKQLPVDIQEEILSGKSREI QGKGSVSCPLAASGGVLSFS KQMQDIPINPRDHLSSSKQVS VSPCEPGTSGFISSSSSSYMSSI DYSYYLDNRLKDERISQFSK QGFHFTINSNPALVSAFHSFP QSEQLFSRNHTTDSHKQTVA							IQKLSFGEDNSPVILSGPPQSFSE
SSEKHYĞRESRQCHIPSHVIQ GTĞNYDVMPPMVDILMKLFI MYNYKMPFRLTLISMCFCSL AVNTATTRLIDYYLMPTISIT: SGKHSFKMKDTHMEDFPKDI TINRDFLPSGRIESTRTRESPLI TINFSKEXDINEPFLGS.IPEGVI EVFKQLPVDIQEEILSGKSREI QGKGSVSCPLIASRGVLSFF KQMQDIPINPRDFILISSSKQVS VSPCEPGTSGFNSSSSSYMSS DYSYYLDNIKLBERISGÇRK QGFHFTNISIPAVSAFHSIFP QSEQLESRNHTTDSHKQTVA			ĺ				EDSFKKCSSEVEAKNKIEELLAS
GTGNYDVMPPMVDILMKLE MVNVKMPFRLTLISMCFCSL AVNTATTRLIDYYLMPTISTT SGKHSFKMKDTHMEDFPKDI TNRDFLPSGRIESTRTRESPLL TNFSKEKDINEFPLCSLPEGV EVFKQLPVDIQEELISGKSREI QGKGSVSCPLHASRGVLSFS KQMQDIPINPRDHLSSSKQVS VSPCEPTGSGTSSSSSYMSS DYSYYLDNRLKDERISQFK QGFHFTNSNPAUVSAFHSIPP QSEQLFSRNHTTDSHKQTVA 21917 52285 A 22045 2 141			l				LLNRVCQDGRKPHTVRLIIRRY
MYNVKMPFRLTLLSNCFCSL			l				SSEKHYGRESRQCHIPSHVIQKL
AVNTATTRLIDYYLMPTISIT:			1				GTGNYDVMPPMVDILMKLFRN
SGKHSFKMKDTHMEDFPKD TNDBH_PSGRIESTRESPLE			l				MVNVKMPFRLTLLSMCFCSLK
TNRDFLPSGRIESTRTRESPLE TNTSKEKDINEFPLCSLPEGV' EVFKQLPVDIGEELISGKSBEI QGKGSVSCPLHASRGVLSFFS KQMQDIPINPRDHLSSSKQVS VSPCEPGTSGFINSSSSSYMSS DYSYYLDNRLKDERISQGPK QGFHFTNSNPAIVSAFHSIFPI QSEQLFSRNHTTDSHKQTVA							AVNTATTRLIDYYLMPTISITSR
TNFSKEKDINEFPLCSLPEGV EVFKQLPVDIQEELISGKSREI QGKGSVSCPLHASGGVLSFF KQMQDIPINPRDHLSSSKQVS VSPCEPGTSGFNSSSSSYMSS DYSYYLDNIKLKDERISQFK QGFHFTNISNPAUVSAFHSIFP QSEQLFSRNHTTDSHKQTV.A							SGKHSFKMKDTHMEDFPKDKE
EVFKQLPVDIGEELSGKSREI QGKGSVSCPLHASRGVLSFIS KQMQDIPINPRDIHLSSSKQVS VSPCEPGTSGFISSSSSSYMSSI DVSVYLDNIKLKDERISGPK QGFHFTNISVPALVSAFHSIFP QSEQLFSRNHTTDSHKQTVA							TNRDFLPSGRIESTRTRESPLDT
QGKGSVSCPLHASRGVLSFS KQMQDIPINPRDHLSSSKQVS VSPCEPGTSGFINSSSSSYMSS DYSYYLDNRLKDERISQGPK QGFHFTNSNPAIVSAFHSIFPI QSEQLFSRNHTTDSHKQTVA 21917 52285 A 22045 2 141							TNFSKEKDINEFPLCSLPEGVDQ
KQMQDIPINPRDHLSSKQVS VSPCEPGTSGFNSSSSSYMSS DYSYYLDNRLKDERISQFK QGFHFTNSNPAUVSAFHSIFP QSEQLFSRNHTTDSHKQTV.A 21917 52285 A 22045 2 141							EVFKQLPVDIQEEILSGKSREKF
VSPCEPGTSGFNSSSSSYMSS DYSYYLDNRLKDERISGGPK QGFHFTNSNPA\VSAFHSIFPI QSEQLFSRNHTTDSHKQTV-A 21917 52285 A 22045 2 141							QGKGSVSCPLHASRGVLSFFSK
DYSYYLDNRLKDERISQGPK QGFHFTNISNPAIVSAFHSIFPI QSEQLFSRNHTTDSHKQTVA 21917 52285 A 22045 2 141							KQMQDIPINPRDHLSSSKQVSS
QGFHFTNSNPALVSAFHSIFP QSEQLFSRNHTTDSHKQTVA 21917 52285 A 22045 2 141							VSPCEPGTSGFNSSSSSYMSSOK
QGFHFTNSNPALVSAFHSIFP QSEQLFSRNHTTDSHKQTVA 21917 52285 A 22045 2 141			ı				DYSYYLDNRLKDERISOGPKEP
QSEQLFSRNHTTDSHKQTV\A							QGFHFT\NSNPA\VSAFHS\FPNL
							QSEQLFSRNHTTDSHKQTV\AT
21918 52286 C 22046 278 489	21917	52285	A	22045	2	141	
	21918	52286	С	22046	278	489	
21919 52287 A 22047 130 426	21919	52287	Α	22047	130	426	

SEO ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nuclcotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
		_				
21920	52288	A	22048	357	1579	QRRPRPFPSQGISMTECFLPPTSS
						PSEHRRVEHGSGLTRTPSSEEIS
						PTKFPGLYRTGEPSPPHDILHEP
l .						S*SNGLMDEKDHGKKKGNFKK
		1				KEKRTEGYAAFQEDSSGDEAE
		1				KLMPRFEEAYGRTTETEKVQEF
ŀ						QRLLKELPEGNYLLISLFVVHM
ŀ		l				DHVITKELEAKMNIQNIYIVVSP
l					-	TVQISNLVLYVFFTHVQELFGN
1						VVLKQVTKTRRWSNVATMPTL
						PETQAGFKEEIRIQELLLNCLHQ
	İ					DLQGGIKDLSEEERLWEEKEIL
						TKQEELLGMEQFLRRQIASEKE
	l		1			EIECLRAETAEIQSHQQQGLSET
		1				EEYSSESESEDEEELQIILEDLQR
		l				QNEELEIKNNHLNQAIHEESEA
						VIEPRMQPWLLQLQPDRAKQQ
						AQEDEEPEWRGGAMQTPKNGI
21921	52289	Α	22049	182	2212	VTEKTSSLPSQGISMTECFLPPT
						SSPSEHRR\VEHG/SAGLTPGPPA
						SEEIQPLPKFPGLY\RTGEPPHPP
						P*HPSHEPSLM*CPDDEKDHGK
		1				KKGKFKKKEKRTEGYAAFQED
1		1		i		SSGDEAESPSKMKR\SKGIHVFK
						KPSFSKK\REKDFKIKEKPKEEK
1		1	ŀ			HKEEKHKEEKHKEKKSKDLT\A
1						ADVVKQWKEKKKKKKPIQEPE
1						VPOIDVPNLKPIFGIPLADAVER
						TMMYDGIRLPAVFRECIDYVEK
						YGMKCEGIYRVSGIKSKVDELK
						AAYDREESTNLEDYEPNTVASL
				i		LKOYLRDLPENLLTKELMPRFE
						EACGRTTETEKVQEFQRLLKEL
						PECNYLLISWLIVHMDHVIAKE
	}			İ		LETKMNIONISIVLSPTVOISNR
				!		VLYVFFTHVQELFGNVVLKQV
						MKPLRWSNMATMPTLPETQAG
						IKEEIRROEFLLNCLHRDLOGGI
	1					KDLSKEERLWEVQRILTALKRK
1						LREAKRQECETKIAQEIASLSKE
	1		l			DVSKEEMNENEEVINILLAGEN
			l			EILTEQEELLAMEQFLRRQIASE
1			l		1	KEEIERLRAEIAEIQSRQQHGRS
1			l			ETEEYSSESESESEDEEELQIILE
1			1			
			1			DLQRQNEELEIKNNHLNQAIHE
1			l			EREAIIELRVQLRLLQMQRAKA
			l			EQQAQEDEEPEWRGGAVQPPR
01000	50000	<u>_</u>	02050	2.4	202	DGVLEPKAAKEQPKAGKEPAK
21922	52290	В	22050	34	322	

	01/0/506/					PC1/US01/08631
SEQ ID NO:	SEQ ID NO: of peptide		SEQ ID NO: in USSN	Nucleotide location of first		Amino acid sequence (X=Unknown,
NO:	sequence	hod	09/540,217	codon for peptide	codon for last amino acid of peptide sequence	*=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
	Sequence			sequence	or popular sequence	and the second s
		<u> </u>				
21923	52291	A	22051	137	1546	QMLGGRPPPRWLQLAKARAL
						RRRPPPSLHLTLPTALSLKS/RT
		1				VPKSIPISETPNIPPVSVQPPASI
						PPLGVPP/PEPSHGDDQPRPG\F
						PIFMEQQIMQQIRPPFIRGPP\PI
			1			PPTPTAPCPTPCFPASGPRPVA
						ETWAPLPAPCTGPCY\PPHPPP
						PPPP/SPGNPPGLLPPPPPGAPL
	ŀ					LPFPPVSMMPNGPMPVPQMM
						FGLPSLAPLVPPPTLLVPYPVI
						PLPVPIPIPIPIP\PSATPSPPTGS
		İ	İ			ATGRTSFRTPLATPRRRAASQ.
						DTPCPPGTPSRARPSPRTRPPA
						RARP*AWRPRPPSMAGARWW
						*RGAPA\PPGPPGRGRPARLPR
						AAGPAGRRHRPDRGPPSPAAG
						DPPRAA/PRTSRRSASRAPRSA
			İ			PAAAAGTATAARPPPATQAR.
			1			PRRAPRRPRPATSS*TARAAPI
			1			SGAKSAEPPPEQPPPPPPPAPP
						KLLSPEEPAVMRARVGQGE
21924	52292	Α	22052	762	2049	RSSFSMGADLLACST/SGLGN
		ļ				PY\DLLRGMEPTLGCSFEDLAI
						A*PGGITOE\KINEMRVAPEOO
						MI\ADIHFMIAAGQDLDWIDA
						GATLLHIAGANGYLRAAELLI
						HGVRVDVKDWDGWEPLHAA
						FWGQMQMAELLVSHGAN\LN
			ŀ			RTSMDEMPIDLCEEEEFKVLL
						ELK\HKHDVIMKSQLRHKSSL
			ĺ			RRTSHRQAS/SVGKVVRRTOP
		1				GTGPNL\YRKEYE/GEEAILWO
						SA\AEDQRTSTYNGDIRET\RT
						OENKDPNPRLEK\PVLLSEFPT
				l		IPRGELDMPVENGLRAPVSAY
				1		YALANGDVWK\VHEVPDYSM
						YGNPGVADATPPWSSYKEQS
						OTLLELKRORAAAKLLSHPFL
						THLGSSMARTGESSSEGKAPL
						GGRTSPYSSNGTSVYYTVTSG
		1	İ			PPLLKFKAPIEEMEEKVHGCC
21925	52293	Α-	22053	2	306	SKEAFAIGLGGGSASGKTTVA
	1	Γ.		1		MIIEALDVPWVVLLSMDSFYR
	ł	ļ	1	I		NAFDFDLIISTLKKLKQGKSVI
	1	1				APIYDFTTLSRKMDWKTLYGA
		1				NVIIFEGIMAFADKTL
21926	52294	A	22054	2	379	
	1-3-7	<u>, </u>		I		

SEQ ID	ISEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21927	52295	A	22055	352	1227	GDVSPQLSPRQKSGPLCTSCCA
						WPVCSPHSDAQPSCGEGGLWE
		1				KTPFLSVPHRFVPRAALASAHO
		i	Ì			CHPLPRTLSVLKSTPOVRGMHT
						IIRDKETSRDEFIFYSKRLMRLL
		1				EHALSFLPFQDCVVQTPQGQD\
						*RITGVSILRAGETMEPALRAVO
						KDVRIGTILIQTNQLTGEPELHY
		1				LRLPKDISDDHVILMDCTVSTG
						AAAMMAVRVLLDHDVPEDKIF
		ŀ				LL\SLLMAEMGVH\SVAYAFPR
		İ				VKKSSPRRWDKAGQLTFFRIIP
		į.				GIGNFGDRYFGTDAVPDGSDEE
			l			EVAYTG
21928	52296	Α	22056	72	2746	FLVETGLHHVGQAGLKLLTSN
			Ī			DPPASASQSTGITGMSHHAQPR
		ľ				QSSYVPPMSLPASAMPVEGVG
						GDALWAGHASGYLGGGOLWA
						TSEYIPLCSSNAESLDRLLPPVG
i						TGRSPRKRTTRQCKSEPPLLRTS
	l	l				KRTIYTAGRPPWYNEHGTQSKI
	Ì					AFAIVPVEQEKEAGQPQAAAA
l		ŀ				GWAPLGPICAGSLPVPHRGSPL
		1				PPAGLGGGSASGKTTVARMIIE
				ĺ		ALDVPWGGSSLSMDSFYKVLT
l						EQQQEQAAHNNCNFDHPDAFD
						FDLIISTLKKLKHGKSVKVPIYD
						FTTHSRKKDWKTLYGANVIIFE
						GIMAFADKTLLEGPGPAPCTGP
		1				EDSIIRHIAAPSLHKASSRANYC
		l	l			VLSMGTDPKLATSPIPOCVGAS
						YPKORCPGEVALARPTDOAAS
		1				VQGLVPVSPCPLLASGHSLARC
			İ		1	LHOLLDMKIFVDTDSDIRLVRR
						LRRDISERGRDIEGVIKQYNKFV
		l				KPSFDQYIQPTMRLADIVVPRG
		1				SGNTVGHRP*LLOHVHSOLEEV
						SGVPRPHGLAPSPSTHFSAATTE
		1				SWPVHLIPLRSLSPASS\SSOPAC
i						LCQQELGNCSKKLGLGRGRIPL
		ł				SLPKGRHAGGAALASAHQCHP
						LPRTLSVLKST\PQVRGMHTIIR
			ŀ			DKETSRDEFIFYSKRLMRLLIEH
		l				ALSFLPFQDCVVQTPQGQDYA
		1		1		GKCYAGKQITGVSILRAGETME
						PALRAVCKDVRIGTILIQTNQLT
21929	52297	A	22057	61	341	
21930	52298	Α	22058	1	1086	
21931	52299	Α	22059	1	498	
21932	52300	Α	22060	104	3395	
21933	52301	Α	22061	1	1653	

SEO ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				scquence		
21934	52302	Ā	22062	1	1717	
21935	52303	A	22063	172	13375	EDLFKCIMAHAASOLKKNRDL
21/33	32303	ľ	22003	1''2	15575	EINAEEEPEKKRKHRKRSRDRK
1		l				KKSDANASYLRAARAGHLEKA
1			l			LDYIKNGVDINICNONGLNALH
			ŀ	ŀ		LASKEGHVEVVSELLQREANV
		1				DAATKKGNTALHIASLAGQAE
		1				VVKVLVTNGANVNAQSQNGFT
1						PLYMAAOENHLEVVKFLLDNG
ı		l		l		ASOSLATEDGFTPLAVALOOGH
1		1		l		DOVVSLLLENDTKGKVRLPAL
1				l		
ŀ		l		l		HIAARKDDTKAAALLLQNDNN
		ļ			200	ADVESKSGFTPLHIAAHYGNI
21936	52304	A	22064	1	360 2577	
21937	52305	A	22065	1		
21938	52306	В	22066	323	3154	
21939	52307	Α	22067	93	791	IRMSYAEKPDEITKDEWMEKL
1						NNLHVQRADMNRLIMNYLVTE
1		l				GFKEAAEKFRMESGIEPSVDLE
		1			ŀ	TLDERIKIREIDT*KGQIQEAIRL
		l				*FNSLHPEL/LWDTNRYLYFHF
		1				ASNSILIPS*FRQ\GKTRGRRWG
	i	l	l			VAQTQLAD\RGEESRECLTEME
	l	ĺ				RTLALLAFDSPEESPFGDLLHT
						MQRQKVWSEVNQAVLDYENR
	İ					ESTPKL\AKLLKLLLWAQNELD
		L				QKKVKYPKMTDLSKGGD
21940	52308	Α	22068	171	426	
21941	52309	Α	22069	5	655	LLQPSVQLPNGTANTSLSFAAV
						SAVSPPPCRTSTATTLPPPMPSF
1						FCVFPSPSMSPSPSEFLSCIASVS
1						RVHSLSSSSSGSSSTASSLNFSAI
1						MGSSSATASWVLSTTSTPPCPS
		1				ALPSSPAQES*SLAASSSAWLSE
						HPSFSSFTLSWASGAFCDEVSLS
		1				FSGSKLSFLSSKGDCGIPFI*TSA
						CPSSLDFSPCFSSSTSKSSSYSEI
		1	l			GKSPQPI

SEQ ID		Met	SEQ ID NO:	Nucleotide location of first	Nucleotide location of last codon for last amino acid	Amino acid sequence (X-Unknown, *=Stop codon, /=possible nucleotide
NO:	of peptide sequence	noa	09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21942	52310	Α	22070	87	1180	NQASLEVLPSPVDSPDSIPSLPP/ SDNPNRNFSAAPVSCLPSPLPVA
l						ASWPSDPSSCSCPSPEVFRSRAP
						GVPTPASVVYVTVISSAAGTSSP
1						LRANSSTTTFPAAAVFPTNSSC
l						WCQVSSSATSEKEEALFAIVFSS
						AVSEPANTSLSSAAVSAVSPPPC
						RTSTATTLPPPMPSFFCVFPSPS
						MSPSPSEFLSCIASVSRVHSLSSS
	ľ					SSGSSSTASSLNFSAIMGSSSAT
						ASWVLSTTSTPPCPSALPSSPAO
						ES*SLAASSSAWPVAGISPSGAC
						TFPAGSASGAAKAPSPSWRCPS
		ľ				FRALFSLLDSSSLSLCSVSLASL
						SLSPPPSFLRAVMFPATFKSRRC
						FKYGNHCLFSDLLWLEVCAL
21943	52311	A	22071	841	1052	IGEVLLDNVLKSVF*LGSVLPIT
						SLKLLP/SGSKRDPAKMSHSHP
		1				AG*VTTGAFPRCGRWRLQPAA
						PPPPS
21944	52312	Α	22072	817	866	HANPVSPPTSWPKE*SWP*CSG
		1				**RTFQSVSFAGGRRRGSWLKP
1						PPATAWKSSSCHLPSGVRMAHF
		l	1			CRIPFGPRGRDFADFGTTIKQDF
i		l				RLLGQTSVDRLLQLSQGQAVK
						GNQLLPVSLVKRKTTLAPNTQT
						ASPRALADSLMQLARQVSRLES GO
21945	52313	A	22073	2	3238	TTFPAAAVFPTNSSCWCOVSSS
21943	32313	^	22073	ľ	3230	ATSEKEEALFAIVFSSAVSEPAN
1	İ					TSLSSAAVSAVSPPPCRTSTATT
	į.					LPPPMPSFFCVFPSPSMSPSPSEF
	1					LSCIASVSRVHSLSSSSSGSSSTA
1	1					SSLNFSAIMGSSSATASWVLSTT
		1				STPPCPSALPSSPAQES*SLAASS
İ						SAWPVAGISPSGACTFPAGSAS
1						GAAKAPSP\$WRCPSFRALFSLL
		1				DSSSLSLCSVSLASLSLSPPPSFL
		1				RAVMFSSDFSNPGVASNMGTT
						VSF
21946	52314	С	22074	88	4374	WEST TO VOLVE DE STATE OF THE S
21947	52315	Α	22075	73	616	VKESLTQKSKRFQNKLINRRG
		1		1	1	WERPRSGASWTQRRALGGRGC VDRWLGII/WPHRIPGARLRGFP
1					1	ALNPTPQTAPSPSPDPRPRPP/CP
		1			1	SDPGPRTEAQCSL\PPPP\PSPRH
		1				LDPGPEPPTPLTQQGQKGTRAP
		1				RPRCPRSQK*ATSGPAVRRREA
					1	RGSASLRTRAPSRDSTHAGIQG
						NVALQP
		L.—		L	I	1

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	eodon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21948	52316	Α	22076	1	421	GTVVMGLPKYFISLSTKFPLSFS
21940	32310	n	22070	ľ	[""	LSADELHIASLFLWPRSKPFGVI
i .						QRSCASQLNALPEVLKNPGDPD
						KMLRFAESPRNLPAGVL/GDIW
	l	l				TDGKGSVSLQEQVYHFPLIRPT
1		i		i		PGS*ARASFLSCG*EEFRRHGLT
						FSSTRE
21949	52317	В	22077	211	2041	· · · · · · · · · · · · · · · · · · ·
21950	52318	Α	22078	200	1525	IMASAHLATSAFCTRSSSSGRSG
						SCKRGSWDSEQALIRAWTTLPS
1		[SLHAADGSFAGGRGIPSKRWS
		1				WRAGQQSSLCLIMQTSSNCGNS
						FQLVSEGASWRGLPHCSCAELQ
1						DSLNFSYHPSGLSLSVRPSSPGN
1						SPKEQPFSQVLRPEPPDPEKLPV
						PPAPPSKRHCRSLSVPVDLSRW
	ļ.					QPVWRPAPSKLWTPIKHRGSGG
						GGGPQVPHQSPPKRVSSLRFLT
		1				SSQCLFSMCPSSQTLQPSFLQPG
						PGP\SSSRPCAASPQSGSWESDA
						ESLSPCPPQRRFSLSPSLGPQAS
						RFLPSARSSPASSPELPLAT*G/L
						SATFPESRSQPCDLDARKTGVK
		l		1		RRHEEDPRRLRPSLDFDKMNQ
		l				KPYSGGLCLQETAREGSSISPP
						WFMACSPPPLSASCSPTGGSSQ
1	(VLSESEKEEEGAVRWGRQALS
						KRTLCQRDFGDLDLNLIEEN
21951	52319	Α	22079	1	117	
21952	52320	Α	22080	3	632	
21953	52321	Α	22081	1	448	MQSETETVHLFIPALSVGAIIGK
	İ	l				QGQHIKQLSRFAGASIKIAPAEA
1		l		1		PDAKVRMVIITGPPEAQFKAQG
		l			1	RIYGKIKEENFVSPKEEVKLEA
1		l	l	1	1	HIRVPSFAAGRVIGKGGKTAST
1		l	1			*QNLCSGMKGKALKAKPSTYN
	1					CVGCGWSPRPRCSLN

SEQ ID NO:	SEQ ID NO: of peptide sequence	hod	in USSN 09/540,217	location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21954	52322	A	22082	233	2096	RREDEONKTSWIHPSPWVVLIF RFSLFFRGVPLTMNKLYIGNL SENAAPSIDLIKSIFKDAKIPVSG PFLVKTGYAFVDCPDESWALIK AIKAFSGKLEHGKPIEVEHSVP KRORIRKLQIRNIPPHLQWEVL DSLLVYGYGVYESCEQVHTDSET AVVNVTYSSKDQARQALDKAL LDKLNGFQLENFTLKVAYIPDE MATQQNPFLQPRGRRGLGGRG SISRQGSPGSVSKQKPCDSPLRL LVPTQFVGAIIGKEGATIRNITK QTQSKIDVHKKENAGAAEKSIT JESTPEGTSAACKSILEIMHKEA QUIKFTEEIPLKLIAHNNFVGRLI GKEGRNLKKIEQDTDTKITISPL QUIKFTEEIPLKLIAHNNFVGRLI GKEGRNLKKIEQDTDTKITISPL QUIKFTEEIPSAMTPPSFOSEQSE SETVHLFIPALSVRALISKQGQH IKQLSRFAGASSKIAPVEAPDAK KRWMMIAGSPEARFKAGGRIY GKIKEENFVSPKEEVKLEHIR GKIKEENFVSPKEEVKLEHIR GKIKEENFVSPKEEVKLEHIR VRSFAAGRVIVFRGGKTVINELQ NLSSAEVVPRDQTPDENDQV VVKITGHFYACQVAQRKIFEEL TOVGOHOOGALOSGPPOSSR

2829

SEO ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first		*=Stop codon, /=possible nuelcotide
	sequence		09/540,217	eodon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
21955	52323	Α	22083	8	1675	TASCRLAMALHVPKAPGFAQM
						LKEGAKHFSGLEEAVYRNIQAC
					1	KELAQTTRTAYGPKGMNKMVI
	1					NHLEKLFVTNDAATILRELEVQ
						HPAAKMIVMASHMQEQEVGD
						GTNFVLVFAGALLELAEELLRI
						GLSVSEVIEGYEIACRKAHEILP
	l					NLVCCSAKNLRDIDEVSSLLRT
						SIMSKQYGNEVFLAKLIAQAC\
						YLFFLIPAISMLITSEFVK/FLGS
		1				GISSSSVLHGMVFKKETEGDVT
						SVKDAKIAVYSCPFDGMITETK
İ						GTVLIKTAEELMNFSKGEENLM
						DAQVKAIADTGANVVVTGGKV
						ADMALHYANKYNIMLVRLNSK
						WDLRRLCKTVGATALPRLTPP
						VLEEMGHCDSVYLSEVGDTQV
			ĺ			VVFKHEKEDGAISTIVLRGSTD
			1			NLMDDIERAVDDGVNTFKVLT
1						RDKRLVPGGGATEIELAKQITS
			l			YGETCPGLEQYAIKKFAEAFEA
						IPRALAENSGVKANEVISKLYA
	Í			l		VHQEGNKNVGLDIEAEVPAVK
	ĺ				1	DMLEAGILDTYLGKYWAIKLA
			Ì	i	1	TNAAVTVLRVDQIIMAKPAGGP
						KPPSGK*NWLNFYCR
21956	52324	Α	22084	175	278	

2830

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21957	52325	A	22085	208	1976	GPSPLKEHFSGLEETAYM\NILT
						CMELAQTTRTAYGPNGMNKM
						VINHLEKLLVTNDAATILRELE
		l	l		i	VQHPAAKMIVMASHMQEQEV\
		ŀ				GDGTNF\VLVFAGSFPVNYLKN
			ł		1	L\WRIGLSVSEVIEGYEIACRKA
		ŀ				HEILPNLVC\CSAKNLRDIDEVS
					ĺ	SLLRTS\IMSKQYGLMKVF\LAK
						PYLLQACRIYFSWIPAISMLITSE
		l			ĺ	FVK/FLGSGIRSS*VLAGMVFK
					i	KET\EGDVTSVKDAK\IAVYS\C
		1				PFDGHG*QET*GEQCLDKRTAL
	ŀ			İ	l	KDLDGIFR*GEQENLHG/AATSP
		1				KAIADTGANVVVTGGKVADM
	i	l				ALHYANKYNIMLVRLNSKM/W
	ŀ	1				DLRRLCKT\VGATALPR\LTPSL
		l				SLKEMGHCD\SVYLSEVGDTQ\
		i				VVVFKHEKEDGAISTIVL\RGST
		1				DN/L*LDDIER\AVDDG\VNTFQ
						GSLQRDKRLVP\GGGSNRNLN*
						PKQITS\YGET\CPGLEQYA/ILK
					İ	KFA*GHLKAIPPAHWQKYSGE
		l				NSGVKAQWK*SPKLYAVHQEG
		l				NKNV\GLDIEAEVP/SLVKDML
		l			•	EAGIPRYLTLGKYWAIPLATNA
					İ	AVTVLRVDQHTLV*FFFMQIIM
	i					AKPAG/GGPKPPKWGRKTWGD
						DQNGLKIGFNFYCR
21958	52326	Α	22086	1	346	PF*CTPSCLWAF*TARSAQTWS
						APSTRS WCSEWPKSLPSPTWLR
						*FRKVSSYSWSQSWSSPTASTD
						SSRPPHSLGASCHPGHQRSLMP
						PSR*RATSTAYASLSSSHRPNTQ
						PSPS
21959	52327	Α	22087	3	484	RSSQPRVGLCGKSLQP/SSEGSC
						HLQGWCSFPRSVSSIMAEA*RT
						*PRVSSSMHGRGPTQNREATKK
				İ		ASSSETSV/QVTAQEAQAEPGA
1						AGVAG/SPASAPQDSAGACWPA
1	1	1		l		QVL*GGSDRSCRGSHPGNTEPP
						SVLRTGTAPGA*G/SSPFSPTTQS
						GSCCFPFSS
21960	52328	В	22088	181	359	

SEQ ID NO:	SEQ ID NO: of peptide		SEQ ID NO: in USSN	Nuclcotide location of first	codon for last amino acid	
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21961	52329	Α	22089	290	2014	STCTPLPTASSQSRPHPPPTPTPP
						APWRSSNGQVPTLT*PGSTLPP
		1				G/SGKSPP/VASGGPARAKPHRA
		1				VHVSPAPSGGSPGDVAELPAAV
		İ				AVRA*QAGSGQRLPAPVCVGE
		l				MGTLCPGEPADVHQVVCGLSE
	ļ.	l			1	PRAPHRPGQPQARAHGVPSGQS
						LCPAQPG*DDS/AKVSSYSWSQ
		l			l	SWSSPTASTDSSRPPHSLGASCH
						PGHQRSLMPPSR*RATSTAWRA
						RTASTPRCLGPRPAPWSCASLSS
						SHRPNTQPSPSPTSVRRARLATP
						SSHGWALAPWTPMAPTQPTTW
						TRWGKTVSGRQMNTWRRPWS
						TCARYSGSAKRSSGSSHSPWAP
	l				PRMRMEKSNSPTASWVRTDSS	
						LRPWGGTRSSMGCEGLKLSTR
						GTRSCSPSGAMRSPAWSAHSLG
						CRLPSTTDLQDRWRLCVPGMT
				ļ		SSAASVATTSQNLGWPAGTC*A LWGGGRWPATPAA\QAQPALP
		l				GQLPTRWSRCCWPSSWPLCSAS
						GPSHARCCSPWAMSSTPLP*HC
					1	*PSGGSCTSPEGVSCLQSRLEGF
		l				ATQPHPWAERTWEAPPGGNTV
						ILGLLERGSCSRRGIWRKRNQE
						RKAGRAPAKE
21962	52330	Α	22090	363	487	
21963	52331	Α	22091	234	282	
21964	52332	A	22092	742	990	
21965	52333	A	22093	1	206	LFPAFSDSRECKLMKKLLEA\H
		1	1			EEQNVD\SYTEA\VKEYDSIFPG
		1				WTQWLTTL\LLRIKKTIQG\DEK
21966	52334	A	22094	128	1062	DLR KPFEAAMYNSGKEAEAMALLA
21900	32334	^	22094	128	1002	
		l				EAER\KV\KNSQSFFSGLFGGSS KIEEACE\IYARAANMFKMAKN
		l	1			WSAAGNAFCQAAQLHLQLQSK
		l				HDAATCFV\DAGNAF\KKADPO
1		l				GGPFNCFDCVAFEIY\TDMGR\F
		l				TIAAKHHISIC*DLLRQKLVDIE
		l				KAIA\HYRALADYYQGEESNS\S
1		l			i	ANKCLLKVAGYA\ALLEQYQK\
1		I	l			AIDIYEQGWGPNAHWTSPPPSK
1		l				Y\SAKDYFF\KAALCHFCMDML
		1				QA\KLAF\QKYEELFPVFSDSRE CKLMKK\LLKA\HGEQNVD\SY
		1	l	1		
		1				TE\SVKGITDSISRL\DQWL\TTH CLRI\KKTIRGD
21967	52335	A	22095	1	1038	OLIGINATINOD
21707	22233	<u>'^</u>	EEU73	l'	11030	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
21968	52336	A	22096	20	2482	RVCSSSASTASOAVMADAWEE
2.,,00	122330	ľ.,	22070	[**	- 10-	IRRLAADFQRAQFAEATQRLSE
1		1		ĺ		RNCIEIVNRLIAOKOLEVVHTL
		1		1		DGKEYITPAQISKEMRDELHVR
		l				GGRVNIVDLOQVINVDLIHIEN
		l				RIGDIIKSEKHVQLVLGQL\IDEN
		l		ļ		YL\DRVGQEVNDKLQESGOVTI
	l	1		ŀ		SELCKTYDLPGNFLTQALTQRL
		1				AIIIIGHIDLDNRGVIFTEAFVAR
		1				HRARIRGLESAITRPTAVNSLIS
		1				
		1				KYGFQEQLLYSVLDELVNSGRL
		1			1	RGTVVGGRQDKAVFVPDIYSR
		1				TQSTWVDSFFRQNGYLEFDALS
		1			i	RLGIPDAVSYIKKRYKTTQLLFL
		[KAACVGQGLVDQVEASVEEAI
1		1				SSGTWVDIAPLLPTSLSVEDAAI
		1				LLQQVMRAFSKQASTVVFSDT
1		ł				VVVSEKF\INDCTELFRELMHQ
		1				KAEKEMKNNPVHLITEEDLKQI
		1				STLESVSTSKKDKKDERRRKAT
		1			1	EGSGSMRGGGGGNAREYKIKK
					ľ	VKKKGRKDDDSDDESQSSHTG
		1				KKKPEISFMFQDEIEDFLRKHIQ
					ľ	DAPEEFISELAEYLIKPLNKTYL
					ľ	EVVRSVFMSSTTSASGTGRKRT
		1			1	IKDLQE\EVSNLYNNIRLFGKRG
						WKFF\ADDTQGWLLPKHLLEV
		1				QCVLISLNLI\FNF\LGFGILMDG
						Q*DDPGRPFTS\ELRKEI\LSKLS
		l				EETKVALTKLHNSLNEKSIEDFI
	l	l				FC\LDSAAEACDIMVKRGDKKR
				1		ERQILFQHRQALAEQLKVTEDP
21969	52337	A	22097	1	711	VLSLFDGIATGYLVLKELGIKV
		1				GKYVASEVCEESIAVGTVKHEG
		l				NIKYVNDVRNITKKNIEEWGPF
		1				DLVIGGSPCNDLSNVNPARKGL
		1				YEGTGRLFFEFYHLLNYSRPKE
		1		l		GDDRPFFWMFENVVAMKVGD
				1	l	KRDISRFLECNPVMIDAIKVSAA
		l		1	l	HRARYFWGNLPGMNRPVIASK
	1	l		1		NDKLELODCLEYNRIA\RIFGFP
		1		l		VHYTDVSNMGRGAROKLLGRS
			l	1		WSVPVIRHLFAPLKDYFAC
		L		L	l	WSVI VIKILLI AFLKDITAC

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first		*=Stop codon, /=possible nucleotide
	sequence		09/540,217	coden for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
		l		sequence		
21970	52338	Α	22098	406	2885	GRGILVNGACSDQSSDSPPILEA
						IRTPEIRGGWAVGTGVVSGADI
		l		l		VSGHCRQWSLLSLFQGSGTLSL
				l		AFITWAFRETRTRSESPAVSSHT
				l		SSQSTCGQHST*HT*HARGRQG
						RNHVDESPVEFPATRVGSPDAQ
			l	l		TPARSL*LGDMPHSLTIDLTDDT
			i			EDTHGTPQSSSTPYARLAQDSQ
			İ	l		QGGMESPQVEADSGDGDSSEY
				l		Q\DGREGLLPRV/I*GP*TRGKTS
						YAMVVSWKATSKRQAMSGMR
			ĺ	l		WVQWFGDGKFSEVSPGKGKGF
		l				CRPEAVPACLPLNKLVSYRKA
						MYHALEVTWDEGMRAKP*EQ
						G*SKRPTELEDQLKPMLEWAH
						GGFKPTGIEGLKPNNTQPGGNE
						SPWQHPLPLLVGPLLGRVRLKT
		1				NCYNNGKDRGDEDQSRGDCW
		1				VPGIMGQMGGGRCRSGIDVIPL
		l				TPWLGL*ACLVCQTCRVSPPTT
	1					ALDLPPLASSNSPLLPCEGRELL
	i					LCSNTSCCR*ALGPVGWMWVG
	1	ŀ				PQGSYVPAV*EPWSCYMCLPQ
						RCHGVLRRRKDWNVRLQAFFT
1	1					SDTGLEYVSHRLPPLPPQIPGAQ
	1					GVGKLWFDGIATGEFGEHLETL
1	1					LSCHNRVARESEESIAVGTVKH
			1			EGNIKYVNDVRNITKKNVRAV
		ĺ				CTLRASSLPVFFPSPPHPNPARK
		1			1	GLYGEHPSLWQSLESLCHLTTG
		l	1		1	PGAGNK/RGLGWRFQMNPALS
		1				SFLST\GVQRDISRFLEVRESGD
21971	52339	A	22099	729	896	

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=passible nucleotide insertion)
21972	52340	A	22100	1	2672	MAYKQGFLKVMVHFRKAEVT GKNHTSVHEGYTLISPAQVLT ISCKKSILLQEQVSFKDVCVDFT ISCKKSILLQEQVSFKDVCVDFT YSNLVSVGYCITKPEVIFKVF YSNLVSVGYCITKPEVIFKVF KGEEPWYLLDEKGIPQACPOK RKWKV/EMNVVREQPRKMKM THFGEPPHTTNKTVSEMGDRG SKTFNLGTDPVSLIKLSL*NM*L SEMNLKNISGLITKKNCSRKK YSKYDQKRNAINYHQDLSQP SFQQSFEYSKNQGFHDEAAFF TNKRSQIGETVCKYNECGRTFI ESLKLNISQRPHLEMEPYGCSITE ESLKLNISQRPHLEMEPYGCSITE ESLKLNISQRPHLEMEPYGCSITE ESLKLNISQRPHLEMEPYGCSITE
21973	52341	A	22101		2817	GNSYLMINKEVGHUGALTINDMY YEYNEYGEIECDNSAFIIHQGAY TRKILREYKVSDKTWEKSALL HQIVHMGGKSYDYNENGSNES KKSHLTQLRRAHTGEKTFECGE KFUL*CTECIGKAFCQKPHLTNH QRTHTGEKPYECKQCGKTFCV KSNLTEHQRTHTGE KPEL*CTECIGKAFCQKPHLTNH QRTHTGEKPYECKQCGKTFCV KSNLTEHQRTHTGE KPYECNECGKSFCVKSNLIVHQB THTGEKPYKCNECGKTFCKSLIVHQB THTGEKPYKCNECGKTFCEKSA LTKHQRTHTGEKPYECNACGK TS-QRSVLTKYQPHITRVKALL* TS-SMLEAFHIL/SKLVIQFQKRR EKAKECQKFVEKTSCLNM*KL KSKRIKTFMYKICAL

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
21974	52342	Α	22102	474	2766	NQTALYNQAQLLHGSRFANMS
						AEGYQYRALYDYKKEREEDID
	•		İ			LHLGDILTVNKGSLVALGFSDG
				l		QEARPEEIGWLNGYNETTGERG
						DFPGTYVEYIGRKKISPPTPKPR
				1		PPRPLPVAPGSSKTEADVEQQA
	ľ					LTLPDLAEQFAPPDIAPPLLIKL
						VEAIEKKGLECSTLYRTQSSSNL
						AELRQLLDCDTPSVDLEMIDVH
			1			VLADAFKRYLLDLPNPVIPAAV
		İ				YSEMISLAPEVQSSEEYIQLLKK
						LIRSPSIPHQYWLTLQYLLKHFF
						KLSQTSSKNLLNARVLSEIFSPM
						LFRFSAASSDNTENLIKVIEILIS
	l					TEWNERQPAPALPPKPPKPTTV
						ANNGMNNNMSLQNAEWYWG
						DISREEVNEKLRDS\ADGT\FLV
		l				RDASTKMHGDYTLTLRKGGNN
						KLINKIFHRDGKYGFSDPLTFSSV
		l				VELINHYRNESLAQYNPKLDVK
l						LLYPVSKYQQDQVVKEDNIEA
l				1		VGKKLHEYNTQFQEKS\REYDR
		l				LY\EEYTRTSQEIQMKRPAIEAF
				l		NETIKIFE\EQCQTQERYSKGNY
1		1				HLEKFKP*RAMEKEIQRIMHNY
		ĺ				DKLKSRISEIIDSRRRLE\EDLKK
				1		Q\AAEYREIDKRMNSIKPDLIQL
				l		RKTRDQYLMWLTQKGVRQKK
	l		l	I		LNEWL\GNENTEDHYSLV\EDD
					1	EDLPHHDE\KTWECLGSS/RTRN
						QSLKNLFARGSRDGTFLVRESS
	l	1		L		KQGCYACSVVVDGEVKHCVI\
21975	52343	Α	22103	3	392	
21976	52344	A	22104	168	404	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21977	52345	A	22105	49	1760	YQSPAWQSHWHQKLQVRKEN MAKRVAIVGAGVSGLASIKCCI EEGLEPTCFERSDDLGGLWRFT EHVEEGRASLYKSVVSNSCKE LEVLKMYANHFDLLKHIQFKT KVCSVTKCSDSAVSGQWEVVT MHEEKQESAIFDAVMVCTGFL TNPYLPLDSFPGINAFKQQYFH MEEKQESAIFDAVMVCTGFL TNPYLPLDSFPGINAFKQQYFH GYKHPDIFCDKRVLVIGMEN GTDIAVEASHLAEKVFLSTTGG GWISRIFDSGYPWDMYFMTR FQMILRNSLPPITYTWLMERKI NNWLNHANYGLIPEORTQLEE FVLNDELPGRITGKVFIRPSIKE VKENSVIFNNTSKEEPIDIIVFAI GYTFAFPFLDESVVKVEDQQAI SLYKIPFAHQFFTLAIGH IKPLGLP*LPTGETQVRWAVSG S*KVLTRLPPFSVMIEEINARKE MFSWFGLCYCKALQSPVITYI DELLTYINTKPNLFSLWILTD FIGGLWYFGPCSPYPGFLDFT FGGKMGKGAQEIALHGPQWDP NISRVHSKVRSCYKESIFFFCK
21978	52346	A	22106	262	969	EWSSVRRSLVEKRALRRPHPQG LEFRMKTILISNQTVDIPENVOI TLKGRTGIREGPPEGTLERIDFN HINIVELSLLWEEKKRGSRVDK WWGNOKRNWPTRSD*FVSHV QNMIKGWLHWGFRLQGPV YAHFPHQPLLSRKNGVSWLKIE KELWGEKYNRVSG*RFGCLL VSVSQCPRKDENPLKGNDIEL VSK/SSAGF*FQQATTS*KTRNI RKFLNDGICLLEKGLFRQA
21979	52347	В	22107	211	457	
21980	52348 52349	A C	22108	167	367	KEAENQCLDISSPGMSGHRQGF DSLEHDELREIFNDLSSSSEDED ETQHQDEK*LDISSPGMSGHRQ GHDSLEHDELREIFNDLSSSSED EDETQHQDEK

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
21982	52350	A	22110	754	1950	VKGKDDAPHELGE/SOFILRLPP
		l				VEYASTVRRAVQSGHVNLKDRL
		l				TVELHPDGRHGIVRVDRVPLAS
		l				KLVD\LP\CVMEEPENPLLKKPF
						SKTAHGOMLVSTVDGDLFPPV
		l				EEPSCLALDPKAS\KKKDKDKE
						KK\FIW\NHGITLPLKNVRKRRF
		1				RKTAKKEIYLNLPDV*KKELKR
		l		l		\LLEVPDA\EAVSTRWGIICPKV
		l				ETKG\AENQG\LDISSPGMSG\H
						R\QGH\DSLEHDELREIFNDLSSS
		l				SEDEDETOHODEEDINIIDTEED
						LERQLQDKLNESDEQHQENEG
	ł			l		TNOLVMGIOKOIDNMKGKL\OE
	1	l				TODRAK\ROEDLIM\KVGNLGS
	1			ľ		PRTDFQAVLGMSFNQREDREK
	1	l		l		EQL\SSLQEELESLLREVKKNLM
	1	l				FNFQSFRLVQHLGKFFGLLLLL
						GYLRPCSS
21983	52351	В	22111	227	355	
21984	52352	Α	22112	121	486	WGPALCIGGYLASFLASVHLMP
		l				LR*GEMLSP*GLSFSFRFPGFKE
				i	\	VRLVPGRHDIAFVEFDNEVQAG
						AARDALQGFKITLSPLKVSPPL
						GAFLEPCVSEWSPHSIVPRVCPQ
						TLHLALLGRN
21985	52353	В	22113	8	165	
21986	52354	Α	22114	1	218	
21987	52355	A	22115	566	1412	TLHSMAVPETRPNHTIYIN\NLN
						EKIKKDELKKSLLRPSFF/SSLG
		l				QILGYSWGIHGRP*RMEGARPF
		l		l		SIFKEVSSGTNALR\SMQGFPFY\
						DKPMRIPVLPRTRLQDIHLPRIE
						RAPFIGSRDPKAGERGRPKSQG
						DPGPPKEGLCKGGGSHPRGGG
		l		i		LSRGPGPGHCPPMT\KAPRI\MH
			1	l	1	HMPG\QPPLTAAPLDMIPPPG\L
		ı	l	[1	APGQIPPG\AMPP\QQLMPGQMP
				l .		P\AQ\PLWRNPP\NHILF\LTNLP\
			1	l	1	EET\NELMLSHAFSNQVPPGFKE
l	1	ı	1	l	1	GPVWVPRAGNEHRPSVEV

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21988	52356	A	22116	2	1176	FGELSTFDAVRGPPRRCPPDAD PRAPGLALPGRLLVSNSRRTHS RESRAPPAPHLLGARAGMAPPO
						VLA\FGLLLAAATATFAAAQEE CVCENYK\LAVNCFCE*INRQC
						Q\CTSVGAQNTVICSKLGCQMF W*MKAEMNGSKLGRRAKPEG GLO\NNDGLYDPDCDESGLFKA
						KQCNG\TSTC\WCVNT\AGVRRT HKDTEVTCSERVRTYWIIIELKH
						KAREKPY\DSKS\LRT*LQKEITT RYTLGSKFLSRVFWYENNVITI\ DLFONFFSKKLRNDVDIADVAY
						YF\EKDVK\GESLFH\SKKMDLT VNGEQLDLDLLIPGQTL\IYNVD
						EKAP*/DFSMQGLK\AGVIAVIV VVVITSCCWKLLVLVISQKGRE WOKYEKAEIKGDGCRCHRELO
21989	52357	A	22117	3	257	AKALQWPLGRGGGGTPRGSRP PGPH*SERGAVQPRSLPRQAA* RVPSGPADGQ*DGHGAADPGS
21990	52358	A	22118	1467	1748	RQRCKPWSEAADLHSECYSS SEYNCCEIGCPQPSWGPWGRG\ TDVRQGQVGEEEVHG/ECGGG
						SQG*RPG**AGSPAP*PGTWTGT AQQGPAAVLDPLRV*GGGIERH PLHSVGL
21991	52359	В	22119	1	1461	
21992	52360	Α	22120	29	417	

2839

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of tast	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	coden for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	detetion, \=possible nucleotide insertion)
				sequence		
21993	52361	Α	22121	616	1671	TATCKPWSMRTTISSSQPQKLT
		1				NSVKLPPSAKCISVSRIGGFLVS
		l				LTSRMKLRTLLICSKLLPSGGV
	l	1				RGLAGSGVKLQTFTVSVTALK
		1				AACLELFTSPGGFMVLLASEVK
	İ	1			l .	LOTFSAGDSDCLGQGRRAQRRI
	ı					GPGVSAVGASGQQRAPESNERI
	l					AEEPTPAPMPSSAPRGPTEPALR
						RPSSADRPLAPGAGRAPGAMAS
1		1				PSGSSKATGKPRGRDGRPRREE
i	l	1				DDVTPEEKRLRLLLEEGSAQPD
	ł					DGEDAPRPGRKETGTQTGGDG
l						RGAARAALLAVGGIRAPLPSLG
						VAPGC\PMSKPPRRHPGATPR/P
	ļ	1				GQGGSDAAHGEEGCPCCSSAV
		1				ATCLGAGLLP\PGRGASSPSSGC
	ł	1			i	ALPSSSNSRSLFSSGVTSSSSLLG
	i	l		İ		RPSLPRGLPVALELPEGLAMAP
						GALPAPGASGLSAELGRLSAGS
	i	1				VGPRGA\G*ASGRAWAPPRAAR
	İ					CSLAPSAG\PRAHRGHAGPWPA
	l					LSSP/GPGPSSRCPLPRRSAASLL
						KPAR/AINPPGEVNNSRHAALR
			l			AVTLTVKVCSFTPEPARPRTPPE
	l					GRSFEHIRRVRSFILEVSETKNP
	Ì					PILDTLIHLALGGSFTLFVNFCG
	l					WDELIVVLIDQGLHVAV
21994	52362	Α	22122	892	1931	CTWNENQRMEIVWEVLFLLQA
	ŀ					NFIVCISAQQNSPKIHEGWWAY
	l	l				KEVVQG\NFVPVPSFWGLVNSA
						WNLCSVGKRQSPVNIETSHMIF
						DPFLTPLRINTGGRKVSGTMYN
			Ì			TGRHVSLRLDKEHLVNISGGPM
		1				TYSHRLEEIRLHFGSEDSQGSEH
	l					LLNGQAFSGEVQLIHYNHELYT
						NVTEAAKSPNGLVVVSIFIKVS
1	l	l				DSSNPFLNRML\NRDTF\TRN*H
						FKNDGIFYYRGL*YRGELLFQG
1	Į.	1				TSSFITYDGVDGLFPTPGY/SRT
	1	1	l			ASWIIMNKPV*YNPGCKMHSLR
	1	1	l			LL\SQEPAISRSFLSMSDNFRPV
1	l	1	1			QPLNNRCIRTNINFSLQGKDCP
		1				NNRAQKLQYRVNEWLLK
21995	52363	Α	22123	17	417	
21996	52364	Α	22124	63	449	CHPALLGPTGHGAWPRHRAPD
l	1	1	1			TLRASAGGRDP*GRRSAPA*ER
1	1	1	1	I		QP*PPVYCAGISQYD*TALSSCL
l		Ì				RRSVRTSTDFRSLLDKSNYSVF
l			1	I		LCFLQLAGRRYFAMWTRPEFFL
1		1		I		ARDPRSLSWGLEWRPLSL
21997	52365	В	22125	1	1131	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nuclcotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21998	52366	A	22126	359	548	
21999	52367	Α	22127	755	1031	TRGVLEHMALGKGTLKDPSGP
						AP*NHPE\VSHAASTQEAAGPP
	l					AGRPGHGSGCLALPASSTSLEP
		i				GLRQDHDLLLQLLWREQEVFH
						DVIQLL
22000	52368	Α	22128	1	277	
22001	52369	Α	22129	1	933	
22002	52370	Α	22130	339	863	PSPVPARPVCPSSAPISMRPPCP
		l				WREAEAADLRPEAPGHRDGED
						VGFLSSGQLSGLCSKRKLQPTR
			İ	l		AALTLTPSAVNKIK\HFLKNNPE
		l				HVGVKVGVRTRGCNGLSYTLE
						YTKTKGDSDEEVIQDGVRVFIE
1			1	l		K\KAQLTLL*TEMDYVEDKLSK
1				ŀ		GVGV\ITPNIKGTCGCGESFNI
22003	5237I	Α	22131	16	419	QIQHRPWP/SRSYTNVLGRKVV
		1				YLPSFFTYAKYIVQVDGKIGLF
1				l		RGLSPLMMSNALYTATRCFMK
		l				KDLPPDEIEQVSNKDDMTTSLN
				ľ		KVANDTSYEMMMHCVSRMLP
	ĺ	l		ł		HPLHVISMRCMDQIVGREAKYS
						GVLSSIG
22004	52372	A	22132	3	441	RSYTKFVMGIAVSMLTYPFLLV
						GDLMAVNNCGLQAGLPPYSPV
İ						FKSWIHCWKYLSVQ\GASTGRR
		i	l			RPFLFFATSFS*NGFVDASLHAK
		1				GQLFRGSS\CFSAGCHQDHALP
						WSNLNHLKNTVSTWPPWVRPD
						HLGTPARRLQPNNNQM
22005	52373	Α	22133	1	1232	MAGAGAGAGARGGAAAGVEA
		1				RARDPPPAHRAHPRHPRPAAQP
			1			SARRMDGGSGGLGSGDNAPTT
						EALFVALGAGVTALSHPLLYV
				İ		KLLIQVGHEPMPPTLGTNVLGR
						KVLYLPSFFTYAKYIGQRDG\RE
				1		GLVPRLSPRLMSNALSTVTRGS
						MKKVFPPDEIEQVSNKDDYEDF
				l		P*RKLLKETSYEMMMQCVSRM
						L\AHPLHVISMRCMVQFVGREA
						KYSGVLSSIGKIFKEEGLLGFFV
				1	1	GLIPHLLGDVVFLWGCNLLAHF
				1		INAYLVDDSVSDTPGGIGKRPE
				1		SRFP\FSQALALRSYTKFVMGIA
l	1		1	l		VSMLTYPFLLVGDLMAVNNCG
			1	l		LQAGVPP\YSPVFKSWIHCWKY
				1	1	LSVQGQ\LFRGSS\CFSAGCHQD
		ĺ		1		HALPW\SNLNHLKNTV\STWPP
		l		1		WV\RPDHLGTTARRFQPNNNQ

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
22006	52374	A	22134	3	1156	PRHPRPAAQPSARRMDGGSGG
						LGSGDNAPTTEALFVALGAGV
ĺ		l				TALSHPLLYVKLLIOVGHEPMP
			l			PTLGTNVLGRKVLYLPSFFTYA
						KYIVQVDGKIGLFRGLSPRLMS
			Ì	1		NALSTVTRGSMKKVFPPDEIEO
			ŀ			VSNKDDMKTSLKKVVKETSYE
						MMMQCVSRMLAHPLHVISMR
						CMVQFVGREAKYSGVLSSIGKI
						FKE\EGLLGFFVGL\IPHLLG\DV
						VFLWG\C\NLLAHF\INAYLVDD
					ľ	SFS\OAL\AIRSYTKFVMGIAVS
			ł			MLTYPFLLVGDLMAVNNCGAA
						SWGSPPYSPVFKSW\IHCWKYL
		1				SVQGQLFRGSS\CFSAGC\HQDH
		1	ŀ			GFALGVN*NHLKNT\VSTWPPW
						VRPDHLGTPARRLQPNNNQMC
		l				SSPAG\FQFHICHVSV\QMWG
22007	52375	Α	22135	2	425	
22008	52376	Α	22136	2	430	
22009	52377	Α	22137	2	406	
22010	52378	Α	22138	1	297	
22011	52379	Α	22139	1	111	
22012	52380	A	22140	1	398	
22013	52381	Α	22141	1	409	
22014	52382	A	22142	500	1234	GPNCRPPSCSAVEGAWPRPQGA
						GARAAIALSQKLELGGVGLVQ
		1				VQCPSLAPSSTSSILFLCLLPHPP
						PHRCLQENTTCLLGVEGVLLLQ
						SPFPLLKTDHSSLPALAPTQSQA
						ALWGFADFGFMFESSPGGNLG
						WEPDIKLTDEMVMIMGGKMEA TPFKWFMEMCVRGYLAVRPY
						MDVVVSLVTIMLDTGLPCFRG/
	İ					QIKFLKHRFSPNMTEREA*NFIM
						KVIQSCFLSNRSRTYNMIQYYQ NDIPY
22015	52383	A	22143	2	6378	SAGPAGPLQVQKLLCMCPVDF
22013	32363	^	22143	 	0378	HGIFQLDERRRDAVIALGIFLIES
						DLOHKDCVGPYLLRLLKGLPK
						VYWVEESTARKGRGALPVAES
			1			FSFCLVTLLSDVAYRDPSLRDEI
						LEVLLQVLHVLLGMCQALEIQ
						DKEYLCKYAIPCLIGISRAFGRY
		ĺ				SNMEESLLSKLFPKIPPHSLRVL
						EELEGVRRRSFNDFRSILPSNLL
						TVCQEGTLKRKTSSVSSISQVSP
						ERGMPPPSSPGGSAFHYFEASC
						LPDGTALEPE
	L	L		L		PLOGIATELE

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, "=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22016	52384	A	22144	3	398	IHKAASGVPQQPDAGCPGTGEG QGGQRCGQ*AGP/AQAPC*SRA GTR/PTCFFVLTSLRSWYRVDSP NKLMNPLVAGFFG/CHCGSGQC LRKCSSARDRAPDARPGLDLAQ GRCCHCNKACLHASETGVGTT SVL
22017	52385	Α	22145	344	498	
22018	52386	A	22146	344	406	FLADQEDPLDPRAGCR*ETTAP RIPSKGPSSTEPLHASTAVPPCQ GELGCSRASPASEKI/DLAGRLIS PCNSDTVSPGLGGFMTCAQSLI SRRPGGPIGPPGWLOGPHLG
22019	52387	A	22147	3	2058	LSGSGAPPEOGAQAAAAAE EEREVYRVRVRALAVSRPSRR GKRSFAAVDEOTISLDVLQHILI RAFDLSG*VGRCWGLLGRDRL GQEVYLSLLSDWDLSTAFATAS KPYLQLRYDIRFSEDSEYSVPFG AISPKDVIGSDVLLAERRSSLIT AALPFTGSLIT.OYPSGTLGTQQ VLSWSYGEDVKPFKPPLSDAEF HTYLNHEGQLSRPEELR.RIYH GGVEPSLRKVSILSHLLVYPDG LTGRERMDYMKRKSREYEQLK SEWAQRANPEOLEFIRSTVLL VRTDRAHPYYAGPEOPHILR ALHDLLTTYATTHPQVSYGOM MSDLASPILAVMDHEGHAFVC FGGIMKRLAANFHPDGRAMAT KFAHLKLLLELKREF AEDDALRMLETWSSLPPDPPE HEVELVGPPSQVADTGFGDHR GWPYRQRHMLRPAGGGGSTF EDAVPHLATASQGFGGGRLL RQASLDGLQQLRDNMGSRDP LVQLFPALSSKGLSEGNL YPDPLLSSFSHPDSPSSSSPPSTQ EASPTGDMAVGSPLMQEVGSP KOPGKSPPULFRICALLELRERDHIM VPDPLLSSFSHPDSPSSSSPPSTQ EASPTGDMAVGSPLMQEVGSP KOPGKSLDFWFMLFPAGGGGSTL KOPGKSTERPENTERSTREAMSPRINGER KOPGKSTERPENTERSTREAMSPRINGER KOPGKSTERPENTERSTREAMSPRINGER KOPGKSLAMMERALAMSPRIPPOFFE RGNPFMLFLCLAILLERRDHIM KNOLDYNELAMHEPORLYNKHH LGRVLRRARALFADYLQSEVW
22020	52388	Ä	22148	130	387	
22021	52389	A	22149	1	279	

SEQ ID NO:	of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide inscriion)
22022	52390	A	22150	105	499	DMSDTSESGAGLTRFQAEASEK DSSSMMQTLLTV/TPEAREAPA TQASSTTQLTDTQVLAAENKSL AADTKKQNADPQAVTMPATET KKVSHVADTKVNTKAQETEAA PSQAPADEPEPSAAAQSQENQ DTR
22023	52391	A	22151	285	984	TSLSCYFSRTKOSPALGLLMVL LSHIFMINGNRSSEAVIWEVLRKL GLRPCYDWALSALAVRVVL.W GERTVLGLHQSGGLVERVGCW TO*ANQGSDLGG*WNOFPELS APSLSVSWASMELPSCAGNLFS ILEMPLFTSGKCHSLE*P1YFFIFF SFSSLRIHHSLFGDVKKLITDEF VKOKYLDYARVPNSNPPEVEFF WGLRSYYETSKMKVLKFGCKV QKKDPKEWAAQVRE
22024	52392	Α	22152	259	578	
22025	52393	A	22153	296	2242	IMMSDTSESGAGLTREQALEAS KOSSSMMGUTLTVTQNVEVEP TPKASKALLEVSEDVKVSKASG VSKATEVSKTPEAREAPATQAS SYLLSLTDITOVLAALENKSLAA *HOGNRMVDPQAC*QLPATET KKVSHVADVGRENVKGFRAL LAPS\QAPADEPEPSAAAQFSG RERVFGFKVKAKKARKVKHLD GEKDGSSDQSAGTTTGGRRV SKALMASMARRASRGPIAFWA KKALSHAVWARRAFALPLEI TLKPRRAKGLRRRVAKFQSSQ EPEAPPRGILALLQGRANDLV KYLLAKDOTKIPIKRSDMLKDII KEYTDVYPEIRERAGYSLEKVF DAGILGTTKDSPKLGLLMVLLS GILRPGIHHSSLLGDVKKLITDE FVKQKYLGLCOKVPNSNPPEY EFLLGACALT-*EPAKMKSPQS FACK/VYQKEGSPRNWGSSVPP REGRAGGREDADFEGCKLRITLE EKAKGPRLEAPNOPLGLGSGE MLAGPCNWDEAUIGNPWAK RIPREGEKLKAKAPKRSGSAS TGA\STSTNNSASIASASSTSGGF SAAASLTATLINNSASIASASTSGGF SAAASLTATLINNSASIASASTSGGF SAAASLTATLINNSASIASASTSGGF SAAASLTATLINNSASIASASTSGGF SAAASLTATLINNSASIASASTSGGF SAAASLTATLINNSASIASASTSGGF SAAASLTATLINNSASIASASSTSGGF SAAASLTATLINNSASIASASTSGGF SAAASLTATLINNSASIASASTSGGF SAAASLTATLINNSASIASASTSGGF SAAASLTATLINNSASIASASTSGGF SAAASLTATLINNSASIASASTSGGF SAAASLTATLINNSASIASASTSGGF SAAASLTATLINNSASIASASTSGGF SAAASLTATLINNSASIASASTSGGF SAAASLTATLINNSASIASASTSTNSAS

SEQ ID	SEQ ID NO:		SEQ ID NO:			Amino acid sequence (X-Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	l	09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
22026	52394	Α	22154	1	487	EFRQPSFRRSIWP/YFLLTQA/VR
						TGNPAKFNQVLDQFGEKFQAD
		i	Ì			GTYTLIIRLRHNVIKTGVRMISL
						SYSRISLADIAQKLQLDSPEDAE
1		ĺ			i	FIVAKAIRDGVIEASINHEKGYV
			l			QSKEMIDIYSTREPQLAFHQEG
l						KDSSVYSFREWGTRTGMSWLV
						CFLKLRL
22027	52395	A	22155	2	429	
22028	52396	Α	22156	1	328	GTRFQADGTYTLIIRLRHNVIKT
						GV/RSGSEGLLEEQKPGQGKPS
1		l				GYPWASEGSVSTLPTPSLLPLPG
1			ŀ			VRMISLSYSRISLADIAQKLQLD
						SPEDADFIVAKVGLVQEPQ
22029	52397	Α	22157	138	2206	AVTPGAMKQEGSARRRGADK
		l				AKPPPGGGEQEPP\PAPAPQDVE
			ļ			MKEEAATGGGSTGEADG\KTA
		1	l		i	AAAA*SNFPAKSWDYSHLWKD
						IKEHRETS*RKAVSGKEPRFVLR
						ALRMLPSTSRRLNHYVLYKAV/
			ĺ			QGAFFTSNNAT\RDFLLPFLERA
1					i	HGTQEADLLFRPRTGKAAGT\P
1						LLPEVEAYLQLLVVIFMMNSKR
						YKEAQKISDDLMQKISTQNRRA
		l				L\DLV\AAKCYYYHARVYEFL\D
		l				KL\DVVRISLHG\RLRTATLRHD
l .					1	ADGQAT\LLNLLLRNYL\HYKL
						VPTSLRSLVSKSVFP/EEQAQQP
						NEWGQVTSYLHQGRIKAIQ\LE
						YSEARRTMTNALRKAP\OHTAV
			ĺ			GFKQTVHKLLIVVELLLGEIPDR
						LOFROPSLKRSLMPYFLLTOAV
						RTGN\LPRFTQVLDQFGEKFQA
						DGTYTLIIRLRHNVIKTGVRMIS
						LSYSRI\SLADIAQKL\QLDSPE\D
		l				AEFI\VAKAIR\DGVIEASIN\HEK
			ŀ		}	AYVQ\SKEMIDIYST\RDPQLAL
						H\QRISFCLDIHNMVWSRPMRV
			İ			PSPKSYKOGSWSLORNGRERR
						NKQDLE\FPKEMA\EDDDDSFPL
1			l		l	KLGGWGGVRGKWGTROLCPP
			l			WGYPLPQGTCPPFSPHTAHML
1			l			AFRGRGWGCWEPATPDLPPGL
1			l			LPSRVTLLVQPGRRVGRQPPRG
			l			RVLASSVADRRGRISLCTPFRE
1			1			WGTRTWDVYGLLCFLKLRL
22030	52398	Α	22158	86	348	
	102070	٠.,	1-2.00		I -	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nuclcotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
22031	52399	Α	22159	3	356	LPLSMDVRAPPAVMAAVDQAL
l	1					KEFGRIDILINCSSSSCGLPFCR\
						AAGNFLCPAGALSFNAFKTVM
						DIDTSGTFNVSRVLYEKFFRDH
						GGVIINITATLGNRGQALQVHA
	l					G\SAKAAVD
22032	52400	A	22160	3	255	GPWSCHAGA*GPGATQVSEDQ
						GLREPHGSRDLCSLG*KH*GAPI
	1	l				CAWPMSWDGPPAAHKVRPSVS
						APPVCINTLCYNLASAFS
22033	52401	Α	22161	3	360	
22034	52402	Α	22162	240	1356	AGNPSGIPGTRVHRGQRGGFAS
	l					TWSGRGAGSTPLQNSPPRQPHR
						EKEFLRQVLEGGSHTGVFRPSA
						ARLVPNPHSLVSPDLL*LVSRA
						T\PHIFLAARKLAGATGRRCLPL
						SMDVRAPPAVMAAVDQALKEF
		1				GRIDILINCESVLSEVGGFSQAP
						AAPAVSHSAGAAGNFLCPAGA
		l				LSFNAFKTVMDIDTSGTFNVSR
						VLYEKFFRDHGGVIVNITATLG
						NRGQALQVHAGSAKAAVDAM
						TRHLAVEWGPQNIRVNSLAPGP
						ISGTEGLRRLDASQGMSWGRG
l	l		1			EGAGSWGSRGLSLLLPS\GGPQ
1					1	ASLSTKVTASPLQRLGNKTEIA
l						IISVLYLASPLASYVTGAVLVA
		_	2014		1.00	DGGAWLTFPNGVKGLPDFASF
22035	52403	В	22163	214	1647	

2846

SEO ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown.
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
20026		<u> </u>	00164	1.000	lioro	L CALIFORNIA DE LA CALI
22036	52404	Α	22164	1765	1910	LSHPHSRTPPNRTPRRTRIPQRP
İ					\	AVMYSPLCLTQDEFHPFIEALLP
ŀ				i		HVRAFAYTWFNLRARKRKYFK
						KHEKRMSKEEERAVKDELLSE
						KPEVKQKWASRLLAKLRKDIR
l			1			PEYREDFVLTVTGKKPPCCVLS
						NPDQKGKMRRIDCLRQADKV
					1	WRLDLVMVILFKGIP\LESTDGE
l				ŀ		RLVKSPQCSNPGLCVQPHHIGV
l				ŀ		SVKELDLYL\AYFVHAGRISSQS
1						ESP\SQ\PSDADIKDQPENGTFGA
			1			SRDSFVT\SGVF\SVT*A*LRVSQ
	1			ĺ		TPI\AAG\TGPNFSLSDLESSSYY
	1					SMSPGAMRRSLPSTSSTSSTKRL
						KSVEDEMDSPG\EEPFYTGQAR
1						SPGKWTVSPSGLSVSWSQGMPS
						PTTLKKSEKSGFQQPLPFHRPPS
						LGNGFHTAFTDLFIYQGPQSKF
1						HIATPSIL\HFPRHSPFFQQPGPY
						FSHPAIRYHPQETLKEFVQLVCP
						DAGQQAGQPNGSSQGKVHNPF
						LPTPMLPPPPPPPMARPVPLPVP
						DTKPPTTSTEGGAASPTSPTTRS
	į.	1		ŀ		/PGRTRPQQPFL/SYGPP*PHFLR
						AGIHHL
22037	52405	Α	22165	63	250	
22038	52406	Α	22166	1	817	SRLGHPRKDMDDDTKATLISY
1		1				MSLSFRHGYCFSEDPCVHTELG
		l				IQSGRGGRGDPDPPGNALE*LA
l						HLGP/SSHLGP*AQDGLVDAAG
1						RASPLAGTEGAGRFSHLQPI/GP
ł				ĺ		RGPPE*GAAGERFPSGVAG/GPR
1		l				GAHGLPCPEQLQLQPPPPS*MP
1		1	1	l	1	KTGSTFVAHFPSPLAQGHSPPG
				l		GGAGWCSGCSPDRPPLLGVGS
1						HGELLNPNSPAYEVGAG/RPAT
						GSSGTRAGPPSPSHSAPGRTPSV
			1			SLCD/RHQCLRASPTGSIGSLPA
1						HWREGLAGPLMD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22039	52407	A	22167	240	1790	TAKNSYLESCPLIMENSIHQWP RQPFPPVRRQAADAACGAGSQ ALVPSHSDITDGVLPGAEWLGD GGPARVPGAAGGRGRATS*A GPLSL*APLCPSGLSGNGKQL LGAAGESSSHAQMHELHPAQ* HE*ATDHTGQGPPIG*KQNG PPCPDNDLPAPESTPPTWNEDF LPDAIPLAHPVPRQRRPTGPAGP GGCGPPGAPPGSKGDRGQT GEKGPAGPPGLLCPPGPRGLPG EMGRPPGPGPGPGPGPGRGPG SPCGALVSLQPPTDKDNGTQG WPLPSWTQCWSGVYGPRGPPG PGCPGPGPGPGPGFGSQGLA GERGTVGPSG/AGGAAAERGPE DPGRASPHPGAHDWDRSPGLP GRGFWPGCCPESOPQDEEGWH PITRUGPCCPSQPGDEEGWH PITRUGPCCPSQPGDEEGWH PTRWGPCCPSQPGGPGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
22040	52408	A	22168	104	271	DKSQSAVSVLCARSRLRAQLRP GAEQMNDCKGITGTRQDIHAV SFASEHNIQNWVSKHLQLSPPV TPATQAPLKVRVPQASTLVL IPSCTNPYGGGRRCDSVVPNOCF
22040	52408	Å	22168	104	2/1	TKHMQSRLLG*GEKALEGGGG RGVKSLVTKRDF
22041	52409	A	22169	494	1074	IGTTLOCKHWGGGYLHWGUFE EMMRLTINIRSMDPKIMFAIWR VPSPFQIPTTRKSVGHRMGGGKI GAIPHYLTPVKAGRLUVEMG GRCEFARSAKVSLTOVALRSCP FASKRL*ACGTPREGCEQOQEE RERQOPRTPWTI*AE*PTAQHG WAYGKVPEPHMTLTPQGELG ARFYMPKTCVVSVGDILYIGY
22042	52410	A	22170	61	329	NQRSGKKSQPW*STITPPSLIWL SNSSTTLSSSKMGQSYSSS*PSY NCSVSRMFGSNMVPAATASGA SLTCPLLWLSMTHFRRKVGGW A
	52411	А	22171	21	444	STAQSISRSDLHYFLALLVYYW AADARFLPGRIPWLIHKLELEK HTEYCLVGSQYTPLVQVFRSN TLVSVLSTKTI*NQRSGKKSQP W*STITPPSLIWLSNSSTTLSSSK MGQSYSSS*PSYNCSSRAKSPTL TVFQS

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hed	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide scauence	of peptide sequence	deletion, \=possible nucleotide insertion)
i				sequence		
22044	52412	Α	22172	163	1056	LEKSDHRISWSPGKTA\SPKSMP
		İ		l		ERWHR*WAQILKD\MGIT\EYEP
					1	R\VIN\OMLEF\AF\RYVTTIL\DD
						AKIYSSHAK\KATVD\ADDVPIG
						OSRC\RAGSSLFTSPPPKRF/LLL
				1		RYLAROKKSNPFCPLIKPY\SGP
						RLPPDRYC\LTAP\NYRLKSFTE
					ļ.	KGHSTSAGKELTVP\RLSVGFRL
				İ		LSRTKVLPTLGAHPTPO\TMSVF
				ĺ		NLK*GTPHVPSPGQRFTSTRCPT
						S\OS\PAVKSFOFPGNLSOFONV
				l		L\INPIH*IGSQKHSYYPLNMMS
1						S\ONTA\NESSNALKRKREDDD
	ł			1		DG\DDDDDDDYDNL
22045	52413	A	22173	215	344	
22046	52414	Α	22174	302	1330	ACEQKRGGEGGNKNRERRKGE
	i					KAGRRQGTRQPCSRCMRRTKQ
1						VEKNDDDQKIEQDGIKPEDKA
		i		1		HKAATKIQASFRGHITRKKLKG
l					l .	EKKDDVQA\AEAEA\NKKDEAP
					l	/VFADGVEKKGEG\TTTARSSPQ
			ļ			PLAPKP\DEPGKAGETS\SEEKM
ŀ			l			GEG*LLATEQGSPPRLLAS\SEE
ŀ		l				KAGSAETESATKASTDNSPSSK
1						AEDAPAK\EEPKQADVPA/AFG
						VFPNPLGALLLAATTPAAEDAA
						AKATAQPPTETGESSQAEENIE
		1		ŀ		AVDE\TKPKESARQDEGKEEEP
						EA\DQEHAWNSGEMGFPHPHPP
						GCLACLSLPSSQLHSEVPSCPAH
ĺ	ł	1	l			VCESVLSHPLALFLSVWANI

SEO ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nuclcotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
22047	52415	Α	22175	2	1577	HGFRLPHPQPALRRLLDQRRPK
						TEDRCGHWDQILDLSIIKHLFS
l						MSFIPVAEDSDFPIHNLPYGVFS
						TRGDPRPRIGVAIGDQILDLSIIK
						HLFTGPVLSKHQDVFNQPTLNS
l						FMS\LGHAAWKEARVFLQNLL/
						SL*SQARLRDDTELRKCAFISQA
l				i		SATMHLPATIGDYTDFYSSRQH
		1				ATNVGIMFRDKENALMPNWLH
						LPVG\YHGRASSVVVSGTPIRRP
						MGQMKPDDSKPPVYGACKLLD
l						MELEMAFFVGPGNRLGEPIPISK
						AHEHIFGMVLMNDWSARDIQK
						WEYVPLGPFLGEEFWGPLSLP
						WGGCPWDAL\MPF\AVPNPKAV
						PQAPCRYLCHDEPYTFDINLSV
						N\LKG\EGM\SQAAT\ICKVQILK
						YMYWT\MLQQAHSPTLSNGC\N
						LRPGGPPGLSGTHQAGPEP/EKN
						FGSMVE\LSWKGTKPI\DLG\NG
						QT\RKFLLD\GDEVIITAMATRD
						FKWYC\QGDG\YRIGFGQ\CAGK
i				1		VLPALLPIMRFSLLFWKQRAQS
		_				TPFQPCDWGSSPRAVGLVPPFQ
22048	52416	Α	22176	3	623	DSRNSSILPRRGALLKVNQELA
						GYTGGDVSFIKEDFELQLNKQL
ł						IFDSVFSASFWGGMLVPIGDKP
						SSIADRFYLGGPTSIRGFSMHSI
						GPQSEGDYLGGEAYWAGGLHL
						YTPLPFRPGQGGFGELFRTHFFL
						NAGNLCNLNYGEGPKAHYIVK
						LAECIRWSYGAGIV\LRLGNIAR
						LIELNYCVPMGVQTGDRICDGV
			i			QFGAGIRFL

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
22049	52417	A	22177	352	2397	GPMSEGIASQGARRRRGIMGLR
22049	32417	^	22111	332	2391	GLWASRADGRRGETEPEAKQEI
		l				LENKDVSFLLKVLIELLVETFTS
						IHH*GDDVFKAKNLIEVGVVST
ŀ						WCAFPVSSEELVNVPM*NIDTC
						QGTYCGVVSL*FPFCPSEKSCFY
						GQNNTMVGNNEGSMVCYRLF
	l					TFLYWNLELGTFTL*LHSKETS
						YGLSFFKPRPGNFERK*EAQQII
				l		EYTGLIEKLK*VAYL*KSAEYS
						VS\AFQSFPLGLGENRVAFSLIP
						KGSYLIQ*VSNGCWHLHCQPLL
						WGSYHRILAELRVLIESTWPFE
						G*LCNGTSQAFSCGPCTPSRSSA
İ	1	ı				RHGHSVCGQLLVADVPGVKG
				1		MLGENNHLFLKY*SMNG*FA/L
	İ					YFPLDLFSCFL*ESFPLTAPSLEG
						SRLTLETMYLLCQGGFGELFRT
	1					HFFLNAGNLCNLNYGKTCAIQE
				ŀ		TIVVQLFSCLKAQYTKIRLGNIA
						RLELNYCVPMGVQTGDRYVLG
						IIFHNHIPLSSNFILFWTWFASGD
						TAGAARLLRLPTDDRAFRDGG
1						GCSHNRQLPFPSTPLLFSTQSPS
1						WKGCSHAGCMHVCLGAQLPG
				l		LGAQLGHGSESQVERLLACGG
						RWGARRQGCCWHDLPKAPHA
1						GCFLAGEKKVGDDQEPCTKTA
						AVREGESVGCTAEGGCLGLSG
				1		GCQGWLAPGLVELRSAAARQE
				j		GSRRRRKRRRHLLRVHPQKVV
22050	52418	A	22178	1	1017	
22051	52419	A	22179	1	435	
22052	52420	Α	22180	1	1353	
22053	52421	Α	22181	1	834	
22054	52422	Α	22182	2	2675	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
22055	52423	I A	22183	72	1339	AMRGANAWAPLCLLLAAATO
22033	32.423	<u> </u> ^	10J	1'-	1333	LSROOSPERPVFTCGGILTGESG
						FIGSEGFPGV\WPPESKCTWKIT
		l				VPEGKVVVLNFRFIDLESDNLC
		l				RYDFVDVYNGHANGORIGRFC
		l				GTFRPGALVSSGNKMMVQMIS
1		l				DANTAGNGFMAMFSAAEPNER
						GDOYCGGLLDRPSGSFKTPN\W
						PDR\DYPAGVTCVWHIVAPKNO
ŀ						LIELKFEKFDVERDNYCRYDYV
		l				AVFNGGEVNDARRIGKYCGDS
ŀ				ł		PPAPIVSERNELLIOFLSDLSLTA
1						DGFIGHYIFRPKKL\PTT\TEOPV\
ŀ				1		TTTFPVTTGLKPTVALCOOKCR
				1		RTGTLEGNYCSSDF\VLAGTVIT
				İ		TITRDGSLHATVSIINIYKEGNL
						AIOOAGKNMSARLTVVCKOCP
						LLR\RGLNYIIMGPSRVKDGAR
						ONSWPNSFIMMFOT\RNOKLLG
						CP*KISQC
22056	52424	Α	22184	49	170	HTVGDGRLLRRP*REFGASFL*
						CFLEARFGLKNWGHCWRH
22057	52425	В	22185	597	651	
22058	52426	Α	22186	1	791	
22059	52427	Α	22187	2	943	TGACAEPRVGLLFRLKGRCRG
i						GRNMELGSCL\YGFREAAEEEG
l						EPEVKKRRLLCVEFASVASCDA
						AV\AQCFLAENDWEMERALNS
						YFEPPAEES\ALERRPETISEPKT
1						YVDLTNEETTDSTTSKISPSEDT
1						QQENG\SMFSL\ITWEYLMGL\D
ł						LKQSVQRRARGVCSYLAL*VLS
						LLFNSNVSYVYTERMNQLKMV
Į.					ł .	LKKMQEAPESATVIFAGDTNLR
1						DREVSDKVSLMFEDRLLLWRLI
				1		*VPFCQYTWDTQMNSNLGITA
			l	1		ACKLRFDRIFFRAAAEEGHIIPR
1			l	l		SLDLLGLEKLDCGRFPSDHWGL
		_				LCNLDIIL
22060	52428	Α	22188	277	534	

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide sequence	hod	in USSN 09/540,217	location of first codon for peptide	codon for last amino acid of peptide sequence	*=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
	sequence		09/540,217	sequence	or pepade sequence	detention, (-possible intelectine insertion)
22061	52429	Α	22189	29	1305	VGVVLRVECPLCPGPAPMSVPA
						FIDI\SEEDQAAELRAYLKSKGA\
						EISEENSEGGLHVDLAQIIEACD
						VCLKEDDKD\VESVMNSVGIPY
		l		l		SWIL\EPDKQ\EAFDLKALCEKA
1		i i				GSKFPRR*TAPSLETCSFLSNLF
		ı				H\GMG*GILPVKIHSVICSL\IKV\
1		l				AASCG\AIQYHPQLEPGIKFRK
						WDFLNWN\LTTGKKSTPLLKTT
		l				FMKALVE\CKKSDAASKGM\VE
		ı			ŀ	LLGSYP\EGNASQ\ARVDAHR\C
		l				IV\RALKDPN\AFLFD\HLLT\LKP
		l			1	VKFFGKASLFHCSFLTKF\VSA*
		1				MGHHMSRFYPD*LRTFH*IPLG
1		1				PVTMDPGIWPKMRLLF/TFMGN
1		1				GQ*KNKEISF*PQCQQEPSRLGA
		1]		D\DVESHLVIDA\VRN*KWVYC
		1		1		QNWSRPRRKVVVSHSTHR\TFG
						K\QQWQTTVLTHLNAW\KQNL
						NK\VKNSLLSLF
22062	52430	A	22190	194	413	
22063	52431	Α	22191	3	160	EVKFQWVLSLG*SFSLPKSSFQ
						RCGAGGAVHWSTALFLLGAAS
		_				ASSYHQRPG
22064	52432	A	22192	268	473	
22065	52433	C	22193	93	500 398	CEL DECL AT CODED COLONDAL
22066	52434	I ^A	22194	12	398	FFLRRSLALSPRPDCGLQWRNL GSLOAPLPGFTPFSCLSLPSSWD
		1				YRRPPPRPANFLYF**RRGFTLL
						ARMVSIS*PHDPPASASQSAGIT
						GVSHRARPETYNFCSFIIISSLPV
		ĺ				EPEARKMTKNSDIGEIW
22067	52435	A	22195	972	2180	PRHCCASASSAPAPSRPASSSSP
22007	32433	l^	22133	1772	2100	PAACPW*GSLLGPAATPATWR
						R
22068	52436	A	22196	2271	3074	RDPSTPTVVRSLGVPLLSRRRFK
		1				MAPSVAATKLAERNETMVOTC
						WTETQSSSDGSTPRRVRISLAL
		1		1		WRPSLFFSMADTSLVLNFPRVS
	l	l				SSGVIRPSNKRPSLAILTRISRTS
	1					SPKYMPLTIFSNSCFPGLRDPRSI
	1					SLSNSVRMSSNDPSSPKAPHS/G
ŀ		1				IDTHPPLVSFHOINVPOFLHVAS
1				1		IGASADDQADFTVLVVIATGHH
1	1			1	1	GAHCVIHHSYDVGIIVPSLFDGF
	1					VKQFDHICSFHSARFKSLCPGD
			ĺ	I		QDGLIYFGLLARKRKRESHR
						Y ODDING BUILDONN

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:		Nucleotide location of last Amino acid sequence (X=Unkn	
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	eodon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
22069	52437	I A	22197	1956	2747	FAFSPK*HSCLRCPCI*FSSGLLH
22009	32437	l^	22177	1,750	2/4/	EVL*LLPLCWP*THGWDPGSRE
		1				ANKSPKLHAIRCVWVLEEENL
		1				WLSSNSOSLOTVKN*ESHIN*SC
	ŀ	1				RSNLI/HH*FWNOVK*K*LLNIS
	1					GNCFFFLRWSL/DSVAQAGVY
		1				WRDLGSLQPPPPGFKRFSCLSLP
		1				SSWDYWHLPPCLAKFCIFSRDG
	1				l .	GFTIWARLVLNS*SCDLPASGS
	1	ı				QSAGITGVSHHTW\LQVTYFLK
1						EMRSCYFSQVGWPQTPGLKQC
						SHLKLLSSWDYRHMSPHLAISG
22070	52438	c	22198	85	228	STILKELSS WD I KIIWISFIILAISO
22070	52438	A	22198	2	434	
22071	52440	A	22200	1	1356	
22072	52441	A	22201	146	1909	ILHSLEISALLSLMMLTIGDVIK
22013	32441	<u>۱</u> ^	22201	140	1909	OLIEAHEOGKDIDLNKVKTKTA
						AKYGLSAOPRLVDIIA\SVPPOY
1	1					RKVLMPKLKAEPIK\TA\SGIVV
1	1					VAVMCKPHRCPHISFTGNICVY
1	1					CP/GVGPDSDFEYSTQSYTG\YE
		1				PTSMRS/IFRARYDPFLOTKDRI
l						EO*ROLGHSVDKVEFIVMGGTF
	1					MALPEEYRDYFIRNLHDALSGH
						TSNNIYEAVKYSERSLTKCIGITI
		l				ETRPDYCMKRHLSDMLTYGCT
	1					RLEIGVQSVYEDVARDTNRGH
						TVKAVCESFHLAKDSGFKVVA
						HMMPDLPNVGLERDIEO\FTEFF
1						ENPAF\RPDGLK\IYPTLVIRGTG
	1					LYELWKS\GRYKSYFS**PGLN
1		1				WVARFLALVPPWTRVYRVQRD
		1				IPMPLVSSGVEHGNLRELALAR
	1	1				NEDLRIOCRDVRTREVGIOEIH
	1	1				HKVRPYQVELVRRDYVANGG
		1				WETFLSYEDPDODIL\IGLLR\LR
	1	1				KCSEETFRFELGGGVSIVRELH
		1				VYGSVVPVSSRDPTKFOHOGFG
	İ	1				MLL\MEEAERIS*RRNMGLGKI
	l					
		1				AVISGVGTR\NYY\GKIGYRLPR
			i			PRTMVKMLEIMGHTQSHSFCSI
22274	20110	١.	22202		400	LPWHEHRRIRISLNTQQRGL
22074	52442	A	22202	2	457 297	CUANDOVDI EL EMA OCUIONO
22075	52443	A	22203	l ²	291	CVMYRDYPLELFMAQCY/GNIS
		1		l	1	DLGKGRQMPVHYG/CKERHFV
1		1		l	1	TISSPLATQ/IPQAARGPGYGIM/
		1		l	1	SIRVDGNDVFAVYNATK/EARR
						RAVAENQPFLIEARPT

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 69/540,217	Nucleotide location of first codon for peptide sequence		Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \possible nucleotide insertion)
22076	52444	A	22204	3	1446	OWLLAKMAEAIAAARIVWRIN RGISHAALLLIRQLGGSGD*AR SHPPRQQQQCSALDDKPQPPG ASAGVIDKLEFIQPRVISGIPIYM VMDPQGGIIHQPQARDPHLAEG ERWLKLIVKSMTLL**HPWDRIL **VFSQGRILLIT**TNYWLRR GTHVOSARRLGQTBTIJVFGQY REJAGVLMYRDYPLELFMAQC VGNISHDLGKGRØMPWNYGCKE RHFVTISSPLATQDPSGRWGAA YAATGGANANRVR'VICYFRAR AGAS*GGDAHAGFINFRCHNL SCPHIFFCRNNGYAISTTTSEQYR GOGIAARGPGYGIMSIRVDGN DVFAVYNATKEARRRAVAENQ PPSHQAHDSRVQAPPSISDAS*T GYNYDENYWENKGPPILOF GHYLTSQGWWDEEQQKAWR KQSRKLPOPQYPSIVAEAEQ AERKVPKPNPINLLFSDVYQNM PAPVRQPPESLARHFKTYGNH YPWDHFDSK
22077	52445	Α	22205	2	292	

2855

SEQ ID NO:	of peptide sequence	hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \-possible nucleotide insertion)
22078	52446	A	22206		1894	QSLADLQSQPSITLTSQIWPSP AGFWSWGNLSVTPSKUPATP TRITAATPIQTILPQSQTAPKRID TPSLEEPSDLEELEQFAKTFKQR RIILGFTQGDAGLAMYKLYGN DFSPTTIFRFEALNLSFKNMCKL KPLLEKWLNDAENLSSDSS; SALNSPGIEGLSRRKKKTSIE TNIRVALEKSFLENQKPTSEEIT MIADQLNMEKEVIRVWFCNRR QKEKRNPPSSGGTSSSPIKAIFP SPTSLVATTPSLVTSSAATTLS SPSLLPLTSAAVTNLSVTASTSEA SSASETSTTQTTSTPLSSPLGTSQ VMYTASGLQTAAAAALQGAA QLPAMASLAMMAAAAGLNPSL MAPSQFAAGGALISLNFGTLSS SLIPTISLDATGNLVFANAGGAP NIVTAPLFLINPQNLSLLTSNPPG GETIEISNNNSTMYMTGMRIQIG GTIELSNNNSTMYMTGMRIQIG LUTVAKPOPINHTLEKCENKNT FQQCLLLEQDSSCGTGFCSMTT YPYMLLSSEQPVQSLVRQCVI LUDAAAVISGGMGAVCLLLTH LCPLCYAGLLSEITDPESFVKDL

2856

SEQ ID			SEQ ID NO:		Nucleotide location of last	
NO:	of peptide	hod	in USSN 09/540,217	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
22079	52447	A	22207	I	2417	MRVRTSSLPSTMLRVQNYARA
						KAGPEYAFVDSTECSPOWMVS
		l				PLKRGTOTNGLDFOKOPVPVG
						GAISTAQAQAFLGHLHQVQLA
						GTSLQAAAQSLNVQSKSNEES
		l				DSQQPSQPSQQPSVQAAIPQTQ
						LMLAGGQITGLTLTPAQQQLL
		l				QQAQAQAQLLAAAVQQHSAS
			l			QQHSAAGATISASAATPMTQII
			l			LSQPIQIAQDLQQLQQLQQQNI
						NLQQFVLVHPTTNLQPA\QFIIS
				,		QTPQGQQGLLQA\QNLLTQLPF
						QSQANLLQSQPRI\TLTSQPATP
						TCTIAATPIQTLPQSQSTPKRID
						PSLEEP\SDLEELEQFAKTFKQF
				1		RIKLGFTQGDVGLAMGKLYGN
			i	1		DFSQTTISRFEALNLSFKNMCK
			l			LKPLLEKWLNDAENLSSDSSL:
						SPSALNSPGIEGLSRRRKKRTSI
						EA\NIRVALEKSFLEN\QKPTSE
						ITMIADQLNMEKGVIRVWFCN
						RRQKEKRINPPSSGG\TSSSPIKA
						IFPSPTSLVATTPSPVTSSATTTI
		l				TVSPVLPLTSAAVTNLSVTGTS
	1	1				DTTSNNTATVISTAPPASSAVT
		1				PSLSPSPSASASTSEASSASE\TS
		1				TTQ\TTSTPLSSPLGTSQVMVTA
		١				SGLQTA/AQLLPFKGAAQLPAN
		1				ASLA\AMAAAAGLNPSLMAPS
		1				QFAAGGALLSLNPGTLSGALSI
		1				ALMSK\STLA\TIQTLASGGSLS
		_				K*TSLECKLGTLVICPMREEPPI
22080	52448	Α	22208	3	114	
22081	52449	A	22209	1	505	NLGVDLLPGYQDPYSGRTLTK
	Ì	1				GEVGCFLSHYSIWEEVVARGL,
		1				RVLVFEDDVRFESNFRGRLERI
		l				MEDVEAEKLSW\YSYWTLAYA
		1				LRLAGARKLLASQPLRRMLPV
		1				DEFLPIMFDQHPNEQYKAHFW
		1				RDLVAFSAQPLLAAPTHYAGD
		_				AEWLSDTETSSPWDDDSGR
22082	52450	Α	22210	3	626	RAARAAPLLHLLLLLGPWLEA
		l				AGVAESPLPAEVLAILARNAEF
	ŀ	l				SLPHYLGALERLDYPRARMAL
		l				WCATDHNVDNTTEMLQEWLA
		1	l			AEGDDYAAVVWRPEGEPRFYI
		l	l			DEEGPKHWTKERHQFLMELKO
		1	l			EALTFARNWGADYI/LGATLGI
		1		l		WQDHSVNSLGGCSPGRAGACI
	l	1	l			VPSSKFADTDNILTNNQTLRLL
						MGQGLPVVAPMLDSQTNV

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hođ	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
22083	52451	A	22211	I	2004	MRAARAAPLLQLLLLLGPWLE
						AAGVAESPLPAVVLAILARNAE
		l				HSLPHYLGALERLDYPRARMA
		1				LCLQGPAQPQWDLWLAGFEEE
		1				OTGTSEVHWGPTWOGSTTLEA
						SGHRCATDHNVDNTTEMLOE
		l				WLAAVGDDYAAAVWRPEGEP
		1			i	RFYPDEEGPKHWTKERHOFLM
						ELKQEALTFARNWGADYILFA
		1				DTDNILTNNQTLRLLMGQGLPE
						VAPMLDSQTYYSNFWCGITPO
						GYYRRTAEYFPTKNRORRGCL
						RVPMVHSTFLASLR\AEGADOL
		1				AFYPPHPNYTWPFDDIIVFAYA
						CQAAGVSVHVCNEHRYGYMN
						VPVKSHQG\LEDERVNFIH\LILE
						ALVDGPRMQASAHVTRPS\KRP
		[SKIGF\DEVFVISLG\RRPDRRER
		1				MLASLWEMEISGRVVDAVDG
		1				WMLQQQVPFRNLRP*DLLPGL/
1		l				YKDPYFGPHS*PRAEVGLLSSD
		1				HYSIW\EEVVSQGAWPR\VLVV
		1				*RNDVAPLRTNFQGGGLERL\M
	ŀ	1				E\DVEGKRNLSWEKPPFRILPLG
				1		R\KQVEPLRRET\AVEGLPG\LV
	1	1				VAG*LPNW\TLA\YALRLAGGP
		1				ASLLALQPFAPHCCPVERISLPI
		1				HCFDQ\HPNEASTKAHFWPRD\
	1	1				LVAFSAQ\PLLAAPTHYAG\DAE
	l	1				WILLSRRHHSPWDDDSGRLISW
		1				SGSQKTLRSPRLDLTGSSGHSL
22084	52452	Α	22212	1	468	ELSHNAKAKVMVASHNEDT/V
	İ	l				LFALRRMEELGLHPADHQVYF
		l				GQLLGMCDQI\SFPLGQAGYPIL
		l	1			TQIHLFSPHTCRAAGGEVRCLP
		I		l		ALPRVWALRCGPNLIPAWDSH
		l				WKLLGTLLELCAQGPHLCDPH
		l				VLGPRGLSTFCQGQPTQPEPLG
	1	I		i		EQWPGWG
22085	52453	Α	22213	1	1893	

SEQ ID	SEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
1				sequence		
22086	52454	Α	22214	390	2005	INRDVETACTYILRNTEDVMLE
						FVMREWKKSRKLLGQRLFNKL
						MKMTFYGHFVAGEDQESIQPL
		l				LRHYRAFGVSAILDYGVEEDLS
	İ	1				PEEAEHKEMESCSSAAERDGSG
	ŀ	l				TNKRDKQYQAHRAFGDRRNG
		ı				VISARTYFYANEAKCDSHMETF
		l				LRCIEASGRVSDDGFIAIKLTAL
		l				GRPQFLLQFSEVLAKWRCFFHQ
1			İ			MAVEQGQAGLAAMDTKLEVA
		l				VLQESVAKLGIASRAEIEDWFT
		l				AETLGVSGTMDLLDWSSLIDSR
		l				TKLSKHF/V*VPNAOTGOLEPLL
						SRFTEEEELQMTRMLQRMDVL
						AKKATEMGVRLMVDAEQTYF
		ĺ				QPAISRLTLEMQRKFNVEKPLIF
		l				NTYQCYLKDAHDNV\TLD\VDL
						SPREGWCFGAKPVRGAYLAQE
		ĺ				RACAAEIGYEDPINPMYEATNT
		i				MYHRCLDYVLEELKHNAKAK
		l				VMVASHNEDTVRFALRRMEEL
		ĺ				GLHPADHQVYFGQLLGMCDQI
						SFPLG\QAGYPVYKYVPYGPVM
		l				EVLPYLS\RRALE\NSSLMKGTH
						\RER\QLLWLELLRRLRTGNLFH
22087	52455	Α	22215	3	303	MERCIQUE II SEESIA CONTROLLER II
22088	52456	A	22216	798	2250	VPRAPOGML*GPRKDAGTPER
		l''		,,,,		RAGPPGGRGTADGGGCGALAG
	l					
	I	i				
			\$			SGS/DDPRLCIWTFLVTDQLLLP
						SGS/DDPRLCIWTFLVTDQLLLP TGPGRPRGSVAAAATGPGVGA
						SGS/DDPRLCIWTFLVTDQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAQPRGAVDGRPLLPQ
						SGS/DDPRLCIWTFLVTDQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAQPRGAVDGRPLLPQ VLPHRRLEVSLGKSPKECVLW/
						SGS/DDPRLCIWTFLVTDQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAQPRGAVDGRPLLPQ VLPHRRLEVSLGKSPKECVLW/ RHLLSESEKRPFVEEAERLRVQ
						SGS/DDPRLCIWTFLVTDQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAQPRGAVDGRPLPQ VLPHRRLEVSLGKSPKECVLW/ RHLLSESEKRPFVEEAERLRVQ HKKDHPDYKYQPRRRKSAKAG
						SGS/DDPRLCIWTFLVTDQLLLP TGPGRPRGSVAAATGPGVGA LRAPARAQPRGAVDGRPLLPQ VLPHRRLEVSLGKSPKECVLW/ RHLLSESEKRPFVEEAERLRVQ HKKDHPDYKYQPRRKSAKAG HSDSDSGAELGPHPGGAVYK
						SGS/DDPRLCIWTFLVTDQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAQPRGAVDGRPLLPQ VLPHRRLEVSLGKSPKECVLW/ RHLLSESEKRPFVEAERLRVQ HKKDHPDYKYQPRRKSAKAG HSDSDSGAELGPHPGGGAYYK AEAGLGDGHHHGDHTGQTHGF
						SGS/DDPRLCIW/TELV/TDQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAOPRGAVDGRPLLPQ VLPHRRLEVSLGKSPKECVLW/ RHLLSESEKRPFVEEAERLRVQ HKKDHPDYKYOPRRRKSAKAG HSDSDSGAELGPHPGGGAVYK AEAGLGDGHHHGDHTGQTHGF PTPLTTPKTELQQAGAKPELKL
						SGS/DDPRLCIWTFLVTDQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAGPGAVDGRPLLPQ VLPHRRLEVSLGKSPKECVLW/ RHLLSESEKRPFVEEAERLRVQ HKKDHPDYKYOPRRKSAKAG HSDSDSGAELGPHPGGGAVYK AEAGLODGHHHGDHTGQTHGG PTPLTTPKTELQQAGAFELKL EGRRPVDSGRQNIDFSNVDISEL
						SGS/DOPRICIWTELVTDQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAOPRGAVDGRPLLPQ VLPHRRLEVSLGKSRFECVLW HKKDHPDYKYQPRRKSAKAG HSDSDSGAELGPHPGGAVYK AEAGLODGHHODHTGQTHGF PTPLTTPKTELQQAGAKPELKL EGRRPVDSGRQNIDFSNVDISEL SSEVMGTMDAFDVHEFDQYLP
						SGS/DDPRLCIWTELVTDQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAOPRGAVDGRPLLPQ VLPHRRLEVSLGKSPKECVLW: RHLLSESEKRPFVEEAERLRVQ HKKDHPDYKYOPRRRKSAKAG HSDSDSGAELGPHPGGGAVYK AEAGLGDGHHHGDHTGGTHGF PTPLTTPKTELQQAGAKPELKL EGRRPVDSGRONIDFSNVDISEL SSEVMGTMDAFDVHEFDQVLP LLGGPAPPEPGQAYGGAYFHAG
						SGS/DDPRLCIWTELVTDQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAQPRGAVDGRPLLPQ VLPHRRLEVSLGKSPKECVLW KHLLSESEKRPVEEAERLRVQ HKKDHPDYKYOPRRKSAKAG HKSDSDSGAELGPHPGGGAVYK AEAGLGDGHHHGDHTGQTHGF PTPLTTPKTELQQAGAKPELKL EGRRPVDSGRONIDESNVDES SEEWMGTMDAFDVHEFDQYLP LGGPAPPEFGQAYGGAYFHAG ASPVWAHKSAPSASASPTETOP
						SGS/DOPRLCIWTEL VITOQLLLP TGPGRPRGSVAAAATGGVGGA LRAPARAGPRGAVDGRPLLPQ VLPHRRLEVSLGKSRFECVLW HKKDHPDYKYQPRRKSAKAG HSDSDSGAELGPHPGGAVYK AEAGLGDGHHHGDHTGQTHGF PTPLTTPKTELQQAGKPELKL EGRRPVDSGRQNIDFSNVDISEL SSEVMGTMDAFDVHEFDQYLP LGGPAPPEPGQAYGGAYFHAG ASPVWAHKSAPSASASPTETGP PRPHIKTEQPSGHYGDQPRGSF
						SGS/DDPRLCIWTELVTOQLLLP TGPGRPRGSVAAAATGFGVGA LRAPARAOPRGAVDGRPLLPQ VLPHRRLEVSLGSKPECVLW RHLLSESEKPPVEEAERLRVQ HKKDHPDYKYOPRRKSAKAG HSDSDSGAELDPIPGGGAV AEAGLGDGHHHGDHTGQTHGF PTPLTTRKTELQQAGAKPELKL SEEVMGTMDAFDVIBSEL SSEVMGTMDAFDVIBSEL SSEVMGTMDAFDVIBSEL GGAPPPEGQAVGGAYFHAG ASPVWAHKSAPSASASPTETGP PRPHIKTEOPRSGHYGOPPGGSP PRPHIKTEOPRSGHYGOPPGGSP DYGSCSGOGSSATPAPAPGFFAG
						SGS/DDPRLCIWTELVTDQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAQPRGAVDGRPLLPQ VLPHRRLEVSLGKSPKECVLW KRLLSESEKRPVEGEARELRVQ HKKDHPDYKYQPRRKSAKAG HKKDHPDYKYQPRRKSAKAG HKCHPDYKYQPRRKSAKAG FPTPLTTPKTELQQAGAKPELKL EGRPVDGGRONIDESNVDELSL SSEVMGTMDAFDVHEFDQVLP LGGPAPPEPGQAYGGAYFHAG ASPVWAHKSAPSASSPTFATED PRPHIKTEQPSGHYGDQPRGSS DYGSCSGQSSATPAAPAGPFAG SQGDYGDLQASSYYGAYPGYA
						SGS/DDPRLCIWTEL-VTDQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAQPRGAVDGRPLLPQ VLPHRRLEVSLGKSPFECVLW HKKDHPDYKYQPRRKSAKAG HSDSDSGAELGPHPGGAVYK AEAGLODGHHGDHTGGTHOF PTPLTTPKTELQQAGAKPELKL EGRRPVDSGRQNIDFSNVDISEL SSEVMGTMDAFDVHEFDQYLP LGGPAPPEPGQAYGGAYFHAG ASPVWAHKSAPSASASPTETGP PRPHIKTEQPSGHYGDQPRGSS DYGSCSGQSSATPAAPAGPFAG SQGDYGDLQASSYYGAYPGYA PGLYQYPCFHSPRRPYASPLIN
						SGS/DDPRLCIWTELVTDQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAQPRGAVDGRPLLPQ VLPHRRLEVSLGKSPKECVLW KHLLSESEKRPVEEAERLRVQ HKKDHPDYKYOPRRKSAKAG HKSDSDSGAELGPIPGGGAVYK AEAGLODGHHHGDHTGQTHGF PTPLTTPKTELQQAGAKPELKL EGRPVDSGRONIDESNVDLSL SSEVMGTMDAFDVHEFDQYLP LGGPAPPEPGQAYGGAYFHAG ASPVWAHKSAPSASASPTETCP PRPHIKTEQPSGHYGDQPRGSS DYGSCSGOSSATPAAPAGPFAG SQGDYGDLQASSYYGAYPGYA PGLYQYCFHSPRRPYASPLLN
						SGS/DDPRLCIWTEL VITOQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAQPRGAVDGRPLLPQ VLPHRRLEVSLGKSRFECVLW KRLLSESEKRPVEEAERLR VQ HKKDHPDYKYQPRRKSAKAG HSDSDSGAELGPHPGGAVYK AEAGLODGHHODHTGQTHGF PTPLTTPKTELQQAGAKPELKL EGRRPVDSGRQNIDFSNVDISEL SSEVMGTMDAFDVHEFDQYLP LGGPAPPEPGQAYGGAYFHAG ASPVWAHKSAFSASASPTETOP PRPHIKTEQPSPGHYGDQPRGSF DYGSCSGQSSATPAAPAGPFAG SQGDYGDLQASSYYGAYPGYA PGLYQYPCFHSPRRPYASPLLN GLALPPAHSPTSHWDQPRRNGS TAQGPKEGVAGAQGAYSKA
						SGS/DDPRLCIWTELVTDQLLLP TGPGRPRGSVAAAATGPGVGA LRAPARAQPRGAVDGRPLLPQ VLPHRRLEVSLGKSPKECVLW KHLLSESEKRPVEEAERLRVQ HKKDHPDYKYOPRRKSAKAG HKSDSDSGAELGPIPGGGAVYK AEAGLODGHHHGDHTGQTHGF PTPLTTPKTELQQAGAKPELKL EGRPVDSGRONIDESNVDLSL SSEVMGTMDAFDVHEFDQYLP LGGPAPPEPGQAYGGAYFHAG ASPVWAHKSAPSASASPTETCP PRPHIKTEQPSGHYGDQPRGSS DYGSCSGOSSATPAAPAGPFAG SQGDYGDLQASSYYGAYPGYA PGLYQYCFHSPRRPYASPLLN

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
j	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
22089	52457	A	222.17	299	1631	I ILLEPHCGGKCFKRHWFPCSCEA
22009	32437	^	22217	299	1051	SC\PSAAPORW*HTG/SPEVPAA
1						PGAQGREPSM/RDGEGAVRGGS
1						CMEAGPMGLQCVDKKHQGVH
			İ			N/RGEARVFLOSOVGAILPRPW
1			l			PNPAPSEP/VQSPLASSTGP*VFP
1						SRPGOOASGPA/RRHPGAEPGO
ł			i		ŀ	RGDAVQLLPRPQTSPHGPQDA
1			ŀ			ALSSAPHPWRQL/MASPGLOEA
1	İ					
1						PLHPFCGHRSPCPVPWQLSPTD
						PIQSRPPARGWAPANQGRPSHP RCRGGGGAFCGHGF/SYTQPLT
			İ			
1						FRLASMVLSIHPKPPKETLRFRP
1						NMVVAAEPGVPAMSQRRPRGC
Į						TRFSHTDKAPLDTCTDMNAYT
						CARRHSSTYSDHITLQGAFACT
						HTWAQSCTCQPPPTPAAKCLDR
ŀ						GQSSGMLHAGCVGWGGGTHV
ŀ						RVDLSSQLNRRVRPHLCMLRC
						WSSCHRASVSCTHPSLHTTGPV
		<u> </u>		L		LISARTGADHTWYTAGTY
22090	52458	Α	22218	383	762	RHQGNQKRKELSLK/CQKSRQE
		l				SPRAEENPKWREGKKETSESSV
						QKAGRAAAAQAGAAASRVPG
		l				LSGSNLAPCNKGRLSAREDVSN
İ						SKLKILSSGRKHTEHVIMLKAW
						GLGRQSLRCRLFDLIPSHKV
22091	52459	Α	22219	325	945	QPSPLAPKADLSAREGRFQLKV
1	1		i		ľ	RCRLQQYQQQR\RKF\AAAFLA
						FHFSLLGSCGILAEAG\KKEKPE
l						KK\VKKSDCGRIGSWSVCVAPP
						SGDCGLGHHGRATRT*\AECKQ
						\TMKTQRCKIPCNWEGRQFGRG
				l		SAKLPSFQAWGECDLDT\ALKT\
						KTGSLKRALHKSPNAQKTVTIS/
				1		KSPCGKLTKPQNLQAES\KKKK
						KEGKKPEGRLRD

SEQ ID			SEQ ID NO:			Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
22092	52460	Α	22220	1	1908	MKYIQDFQREKQEFERNLARF
	1					EDHPDLIQNAKKSDIPEKPKTPQ
				1	ŀ	QLWYTHEKKVYLKVRPDATTK
						EVKDSLGKQWSQLSDKKRLK
į.		İ				WIHKALEQRKEYEEIMRDYIQK
					1	HPELNISEEGITKSTLTKAERQL
						KDKFDGRPTKPPPNSYSLYCAE
						LMANMKDVPSTERMVLCSQQ
					İ	WKLLSQKEKDAYHKKCDQKK
		1				KDYEVELLRFLESLPEEEQQRV
						LGEEKMLNINKKQATSPASKKF
						AQEGGKGGSEKPKRPVSAMFIF
						SEEKRRQLQEERPELSESELTRL
						LARMWNDLSEKKKAKYKARE
						AALKAQSERKPGGEREERGKLF
						ESPKRAEEIWQQSVIGDYLARF
			İ			KNDRVKALKAMEMTWNNME
				ł		KKEKLMWIKKAAEDOKRYERE
						LSEMRAPPAATNSSKKMKFOG
	1				ľ	EPKKPPMNGYQKFSQELLSNGE
					ļ	LNHLPLKERMVEIGSRWORISO
						SQKEHYKKLAEEQQKQYKVHL
	l					DLWVKSLSPQDRAAYKEYISN
	1					KRKSMTKLRGPNPKSSRTTLQS
						KSESEEDDEEDEDEDEDEEEE
	1				ŀ	DDENGDSSEDGGDSSESSSEDE
	٠.	i			ì	SEDGD/EGGADRAQWEGRGVL
						PGGPPGDSTSFLTPQNEEDDED
						EDDDEDDDEDEDNESEGSSSSS
		ĺ				SSSGDSSDSDSN
22093	52461	Α	22221	129	2365	
22094	52462	Α	22222	5	2730	PSLRFAISGFVWRLAAPASAAA
					i	ELRLDCSARRAPRCPRPALPSTR
		1				SAEGAVLCAFRREEQQAAATA
						AAAAAATAAAAAAPAPPPRP
		1				EEEPLPPREGAAAVPGRAGEGA
		1		i		ATQSQGGSRWSGKPGGRAAPA
		1		i		RPRRWLDSWRMNGEADCPTDL
		1				EMAAPKGQDRWSQEDMLTLLE
i		1		1		CMKNNLPSNDSSKFKTTESHM
		1				DWEKVAFKDFSGDMCKLKWV
						EISNEVRKFRTLTELILDAQ*HF
	1	1		l		KNPYKG\KKLKKHPDFPK
22095	52463	Α	22223	1	446	RPSPPTSSM/PGLWGYSRPCSSG
		1		1		VPASALQA*SPAFSPASQRPPTT
		1		1		SWWEVP*EEGRA\PVWEGRIRA
						VGPAPAS*PSDLPAWSCRSWRE
		İ		1		TRG\SPAEDAMLLRAVEPLEGC
l		1	l	1		QRPLLDSEPP/SPARTSAPAASA
1	1	1		1		SPPAPGGPPCLARPLPR
			L		L	

SEQ ID	ISEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
22096	52464	A	22224	582	1175	THTHVPAGTHPHTOTTSHSHLL
22070	32404	l^	ZZZZ-	302	1173	GRALTVPESPKCPCLLPSAC*PR
	1					PGRAOPAGPAWSKKEASNPGS
		ļ.				E/PPQHSL*RRMAPPE\PVPARA
	1					VHTCRCLSSAPPGARLPLDPER
		ŀ				RAPQSPRSPPPSAQPPPPPPPPPP
						PPPGRRGPSQQSWRPSPPPPRTR
	1	-				SRSPRRSRVRGPRAPALAAPPPP
	1					GARPGPCAAACGSPTGCS
22097	52465	A	22225	609	5241	GPOTTWCGRPTMCOHCGPAVS
22097	32463	I ^A	42223	1009	3241	SWKOPSHDPCCRGGENRROPG
		1				TPARATOGRLRRRPEGARVPSA
	İ					RRGRPRARWRDKERNNTCVA
ŀ		1				ML*QVTNSTAN\APQNNPEVDS
	Ì	1				IMAELKVEAPASVDWQKRCLT
		ı				LETQLFRFRLQASKIRELLADK
						GHGTYISPFSLAKQMQELEQRL
1						LEAEQRAENAETQVGVMEEKV
						KLSNLKNVDSEGSLHRKYQELL
		1				KAIKGKDELISQLEAQLEKQKQ
		L.			ļ	MRAEEAKTVQEKAAKIKEW
22098	52466	Α	22226	2	205	
22099	52467	Α	22227	I	6186	DI GOODING CONDUCTORIA
22100	52468	Α	22228	96	1584	DLGSGITASPPRPEPEHPVFPPA
					1	PHTPSKMGKEKTHINIVV\IGHV
					1	DSGKSTTTGHLIYKCGGIDKRT
						IEKFEKEAAEMGKGSFKYAWV
						LDKLKAEREPG\ITIDISLW\KFE\
						TTKYYITIID\APGHRDFIKNMIT
						G\TSQADCAVLIVAAGVGEFEA
		1				GISKNGQTREHALLAYTLGVK
		l				QLIVGVNKMDSTEPAYSEKRY
						DEIVKEVSAYIKKIGYNPATVPF
1	1	1				VPISGWHGANMLEPSPNMPWF
	1	1		ŀ		KGWKVERKEGNASGVSLLEA\
	1					LDTILPPTRPTDKPLRLPLQD\V
l		1				YKI\GGIGTVPVGRVETGILRPG
		ı		ł		MVVTFAPVNITTEVKSVEMHH
	ı	1		1		EALSEALPGDNVGFNVKNVSV
1		1		1	1	KDIRRGNVCGDSKSDPPQEAAQ
	1	1		1	1	FTSQVIILNHPGQISAGYSPVIDC
	1	1		1	1	HTAHIACKFAELKEKIDRRSTK
1		1		1	1	KLEDNPKSLKSGDAAIVEMVPG
	1	1		1	I	KPMCVESFS\Q*PVIG/RTPVRD
	1			I	I	MRQTAA\VGVIKNVQKKSVGA
	1					GKVTKSAQKAQKAGK
22I01	52469	Α	22229	1	1023	
22102	52470	Α	22230	1	396	
22103	52471	Α	22231	2	1259	
22104	52472	Α	22232	1	2514	

SEQ ID			SEQ ID NO:			Amino acid sequence (X-Unknown,
NO:	of peptide sequence	hod	in USSN 09/540,217	location of first codon for peptide	codon for last amino acid of peptide sequence	*=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
	sequence		09/540,217	sequence	or peptide sequence	decenou, v-possible nucleotide insertion)
		i		·		
22105	52473	A	22233	3	2027	EESDCLTEYEEDAGPDCSRDEG
	1	l				GSPEGASPSTASEMDVSLHFVL
	1					WGCLHVYQRMIDKAEDVCLFV
		1				AQPGELVGQLAVLTGEPLIFTL
		l				RAQRDCTFLRISKSDFYEYDSP
						KLECGWHSEDPNPWTSPSTGL
	ŀ					NPLFLELCRHMVFQRLGQGDY
	ŀ	l			l	VFRPGQPDASIYVVQDGLLELC
		1				LPGPDGKECVVKEVVPGDSVN
						SLLSILDVITGHQHPQRTVSARA
					i	ARDSTVLRLPVEAFSAVFTKSA
	ľ					RTITGCVWRYVRASASYCPYLP
				l		PLCDPKDGHLLVDGCYVNNVP
						GSLWRYVRASMT\RRATCPRCA
	İ					TPRTGTYSWMAATSTICQASGR
						PHHPHTQAPPAPHTRTRRTSPA
				1		AWVPKRSSPLTWGARMRRTSA
	1				İ	PTGTACPAGGCCGSG*IPGLTR*
					1	RFQTWLKSSPAWPTCPVCGS*R
1						LSSPAPTASTCARPSTASRPWTL
1			İ			GSSTRSILRTTRRMSTAVTTTAT
	1					PAPIITPST*GTNGTGCAPQIRPA
						EPSPGARTSWNPSLSATFAPEEF
		1				VASP*LDVPICRMGQCCSLPGG
1		ł				ATLP*GPCGPQCMPGNVVPPER
						TAARYRQTTAYQTPACPTPPRG
				1		QRPT/CVPTVSSLQAGLQGGPRS
		1				DFDMAYERGRISVSLQEEASGG
1		1			l	SLAAPAREPREQPAGACEYSYC
1	1	1		l		EDESATGGCPFGPYQGRQTSSIF
1	1	1	I	l	i	EAAKQELAKLMRIE

2863

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion
	sequence		09/540,217	sequence	or pepnae sequence	acietion, v=possible nucleonae insertion
22106	52474	A	22234	281	1832	NDSGLPDRPSSWNQPMEAPLQ
		1				TGMVLGVMIGAGVAVVVTAV
		1				LILLVVRRLRVPKTPAPDGPRY
		l				RFRKRDKVLFYGRKIMRKVSC
	ŀ	l				TSSLVDTSVSATSRPRMRKKL
l l		l				MLNIAKKILRIQKETPTLQRKE
		ı				PPAVLEADLTEGDLANSHLPS
		l				VLYMLKNVRVLG\HFEKPLFL
		1				LCRHMVFQRLG/QGDYVFRPO
		l				QPDASIYVVQDGLLELCLPGP
		1				GKECVVKEVVPGDSVNSLLSI
	1	1				DVITGHQHPQRTVSARAARDS
	į.	1				VLRLPVEAFSAVFTKYPESLV
		1				VVQPGPPSGPAPYPAPSYGHA
		1				RALQIIMVRLQRVTFLALHNY
						GLTNELFSHEIQPLRLFPSPGLI
		1				RTSPVRGSKRMVSTSATDEPR
						TPGRPPDPTGAPLPGPTGLQG
		1				PRSDFDMAYERGRISVSLQEE
		1				SGGSLAAPAREPREQPAGACE
		1				SYCEDESATGGCPFGPYQGRO
				İ		SSIFEAAKQELAKLMRIEDPSL
		1	İ			NSRVLLHHAKAGTIIARQGDQ
		1				MEEVKVPAFAVIVD
22107	52475	Α	22235	50	4287	PGRKSPGAEDRALWGPACRL
		l				TDSGLPDRPSSWNQPMEAPLO
		1	Ì			GMVLGVMIGAGVAVVVTAV
		1	ŀ			LLVVRRLRVPKTPAPDGPRYR
		1				RKRDKVLFYGRKIMRKVSQS
			1			SLVDTSVSATSRPRMRKKLKN
		1	}			LNIAKKILRIQKETPTLQRKEP
						PAVLEADLTEGDLANSHLPSE
		1	ļ			LYMLKNVRVLGHFEKPLFLEI
						RHMVFQRLGQGDYVFRPGQP
		1		1		A\SIYVVQDGLLELCLPGPDGF
		1				CVVKEVVPGD\SVNS
22108	52476	A	22236	283	403	TCLSLVSGCGHCEKMNSEEN
				l		*IPIQWASSNPGRRRKNIR
22109	52477	Α	22237	33	222	NGPM\CFVKQLEIPQYGYRNN
		1				PTTTPRSNLAKELEKYSKTSFE
						TINDNHTYGGLGCMRPRLV
22110	52478	В	22238	1	1860	
22111	52479	Α	22239	303	672	GITACVFFSMAEGRTRAERSC
				1	I	SK*AIGAPAEE*GGASPGKSPE
		1				WQGAGYSPLGACGHKARLWI
		1				WRRSWSGEKGARGCRGTGK
		I				LGHQGWRWETPGRPGGAGPA
		1	1			GFPDPVVMGCEKEASRV
22112	52480	A	22240	I	1377	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22113	52481	A	22241		2232	MQDTEKDDNNNDEYDNYDEL VAKSILNLGKIAEDAAYRARTE SEMNSNTSNSLEDDSDKNENLG RKSELSLDLDSDVVRETVDSLK LLAQGHGVUSENMNDRNYA DSMSQQDSRNMNYVMLGRPM NNGLMEKMVEESDEEVCLSSL ECLRNQCFDLARKL SETNPOER NPOQNMNIKQHVRPEEDFFGRT PDRNYSDMLNLMRLEEQLSPRS RVFASCAKEDGCHERDDDTTS VNSDRSEEVFDMTKGNLTLLE KAIALETERAKAMREKMAMEA GRRDNMRSYEDQSPRQLPGED RRYSDSSHVKKPYYGKDPSRT EKKESKCPTPGCDGTGHVTGL YPHHRSLSGCPHKDRYPELLA MHESVLKCPTPGCTGGHVNS NRNSHRRDIQVFNLQKQEMIDR LESLSGCPHAAEKLAKQEKH MESVLKCPTSGCTGGHVNS NRNSHRRDIQVFNLQKQEMIDR LESLSGCPHAAEKLAKQEKH LAKELEKYSKTSFEYNSONHTYGK VQLEIPGYGVRNNVPTTPRSN NLSGGGGSASDRVLRPMCFV KQLEIPGYGVRNNVPTTPRSN SNLSGGGGSASSTCKSRSSPDYT HDMEAHMAATALNLSTRCR EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCATRIPDE EMPQNLSTKPQLCAMRNKCRRDS CPILTPLEPMSPQQAMMNNKC
22114	52482	A	22242	727	4372	\RIDEDESKDITPEDLDPFQEALE LWACVLPGVTLPPFLGEKTSCK MEVDTEEKRHRTRSKGVRVPV
						EPAIQELFSCPTPGCDGSGHVSG KYARHRSVYGCPLAKKRKTQD KQPQEPAKKRFAYVAN ASSSV DECDDSDGTEDMDEKEEDEGG EYSEDNDEPGDEDEEGDRE EEEELEEEDEDDEDGEDGEDVEDE EEEEEEEEDEDDEDGEDVEDDE EEEEEEEEEE

SEO ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
1	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
22115	50400	-	22243	lad	1.000	DISCOURTED DO FORM
22115	52483	Α	22243	34	1558	PASEEFNSLHGRTPRRDLECRN QQSTTEERRRHDCVQQASEHN
		1		}		EGKWDFAFSAQSQPKP*KPFDV
						PC*DSRPACP*EHTAGTSGSTSS
		ŀ				ETCFFQSSEWPYGELGAYNIFT
1						GPKSTLSSLVTGVSNSSSLS*LP
		l		•		SPKNTITNWFHTRDHSSYSEIHS
	İ					KACANP*APSQPSR*ASWIATG
		1		·		SFRRAGLAT*PCCTGSKLLPAW
	ŀ	l				VLANHRWDRTRDGIOKOGNSE
						*PSSPGTRAFEGNSSSPAPAASIT
						SMLSPSFTPTSVIRKMYESKEKS
						KEEPASGKAALGDSKEDTOKA
	İ					SEENLLSSSSVPSADRDYFSHY
						KFQTVRHYRGSSCS\PHLSQGQI
						FTPKEODYSDLKGNWGRKNTH
	ŀ					FGHSPVSLQHFFFRPVPPSSPLSF
						MVPNG*GLLTKLHPGFGTEDA
						GPGSTSTASSKFAPNWCASSWE
						GLESFTGNIWPHPGSALLPFN*S
1	ŀ					LVHPLLNPRPGNTSASGNGATA
	i					ANSAQ\SCILQALVSHGSSCSAF
1	l					QDNPSETCPAGQACPHALP
22116	52484	A	22244	1502	2657	EGKVPLAFIVLTSLLNAVMSPSF
						FSCRLLVTALKVSSRCSAMKGV
						EFFTCWSTFKPFRPASTSSTEST
	ŀ					TPECELSLSFSLFAERLERRGFK
						STLAFCSISKISTLFSAWSSNGIG
		1				AK*FPEFCPGDRMACSRPASLSS
		1				SSCG/S*PKTAGSAS*SARVREPF
						TEPTGRD*PFSQ\TSSIIEAKHGT
						LSRLKNSLKSKSPGDCSGKTAS
						LGTS*SAAGSCARMTSTSSSSAT
				1		PPLHSTIPSFTEAVRRLVLFLPL*
1				l		SSSSILSSKPVSSMVSD*LVGPA
	l			1		ENHSGSSSV*ESFLLRSPKTRLL
1	1			l		SPNSLLKRLSLKSLSRSLSLKSR
1		1		1		RSLSL\SGDPSQRSGQRLSSHCQ
1				l		SYVHQADEAHHYLSLMDFLSA
				l		GS*QRLSRGSPLQSSVSEG
22117	52485	Α	22245	324	391	
22118	52486	Α	22246	42	274	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	l	09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
22119	52487	A	22247	1	835	MCAGNLCSWEERWAVDEKEA
		l				TDKKPHVGGFGQGAPAPAAPA
		l				AAMSGRSVRAVTRSRF*DDIKK
		l				VMAAIEKVRKWEKKWVTVGD
	ļ.	l				TSLRIFKWVPVTDSKEKEKSKS
		l			l	NSSAAREPNGFPSDASANSSLL
		l				LEFQDENS\NQS\SVSDVYQLKV
	ŀ	l				DSSTNSSPKPPKQSESLSPAHTS
		l				DFRTD\DSQPPTLGQGDPGRSPP
	i	l				LP\SSEVADEPPTLTKGRTSFHL
	İ	l			1	ETQVVEE\EEDSGAPPLKRFCV\
		l				DOPTVPOTGSEKLAPSRPSAFW
						ALPLFIAFWFWPRRVCWG
22120	52488	Α	22248	3	244	
22121	52489	В	22249	271	711	, and the second
22122	52490	В	22250	73	200	
22123	52491	Α	22251	885	975	GSTWWPAD*AQL*LHLPTRCM
						AECWEIPA
22124	52492	Α	22252	102	909	PGGRHGRQNDFAAPGGRLEARI
						HGTVSAPLYHRVLCRLLGSRPA
						SAAGPAARGGDLAPGEHSFCE
				1		DGNYARVESVDRSAINRAMQN
						PRKSTASVCWTFTASDLPAQGV
				l		\PRTSSTRTLREDPFPPSAEKWL
						RAVLHHFVNEKLQQIFIELTLKP
	l	l		l		SRRSMSGRHPLDSNPVLQQQGR
				l		CDLIENKLSPPGIMSVLDDVCPP
1	ł				l	CTPRAGEQTRHCCRTAGGCGD
1	I	1				PRAFQQLERRFVIHHYAGKTHR
	ł	l				PLPGLTPTGNSTNARNIVMDTQ
						QRTGNN
22125	52493	A	22253	48	112	
22126	52494	Α	22254	1243	1615	YSPSSWFSNLYQPSTGALSSSET
		l		į.		PKDMAPMKSLREVRSQSHTSTL
ŀ				ł	I	SRRSTSPGFRLNTKVSFHTGFSV
1		1			I	AFTVRVFCFVRFRGSGMSFSFT*
					Į.	GSERPLGSIGIRLRASPTVTWISS
1	1		1	1	1	AVGARISSC

SEO ID	SEQ ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stup codon, /=possible nucleotide
1	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
1		l		sequence		
22127	10000	 -	1000.55	Lico	1431	la vaggen a Fat in ag . I van
22127	52495	A	22255	468	1431	SVSTTRSFSVDSSAKTAAMPVT
						VTRTTHHNHPDVIFGAWGPP*S
		1		l		WGPLWALTQPLGLL\RLLQL\V
		1				STCVAFSLVASVGAWTGSMGN
1	ŀ	1				WSMFTWCFCFSVTLIILIVELCG
	ŀ	1				APGPFPPWSWR\NFPI\TFACYA
		1				ALFCLSASIIYPTTYVQFLSHGR\
		1				SRDHAIAATFFSCIACGC\YATE
						VAWTRARPGEITGYMATVPGL
				l		LKVLETFVACIIFAFISDPNLYQ
						H\QPALEWCVAVYAICFILAAIA
		1				ILLNLGECTNVLPIPFPSFLSALA
						\FCLSSSMPPPLFSGPSTSSMRSM
	!	l				AASLGAREM*AAAAGMPTTW
		1				VPGTADWLRPS
22128	52496	Α	22256	98	414	CTRVSVAEKTSVCLFGLYWESL
i i		l				SISSSCESSAKWPFSTIRSASSTT
	İ	l				RHLSCRRFLK**CFSLINSHSRP
		l				GVATTISGRRFSILCCFCVDIPPT
						KIAVLIPVNLAT
22129	52497	Α	22257	2	224	
22130	52498	Α	22258	2	115	
22131	52499	Α	22259	2	118	
22132	52500	Α	22260	472	648	GPGGRSFTVWWNW*RRMAQC
						P\PAEGVQRPECLGPHRAVPAP
		1				AHVGLHQEPSRLLPALH
22133	5250I	Α	22261	540	1893	GRCATPRPRWRGHQCDPPPGD
		1				VCVAWREMQLRNKKRRR\DLG
		1				NLIK\RFLTAPNSLPD/AVVLTTE
		1				EAVIFWCNVLAQQIFGL/PLEM
			İ			MNEQPLEGAVREKALHTMREQ
1		1				TQRMEGLVKQL/LTLSKIEAAPT
1		1				HLLNEKVDVPM/MLRVVEREA
1			İ			QTLVYNAVNHTPEGTHITVRW
						QRVPHGAEFSVEE*SEGWPVPV
		1				PKPHRAVVGANAHISFCPPQEL
1		l				SKRFTAIRKTKGDGNCFYRALG
						YSYLESLLPDAFOPLLPPOAWV
						SPGESQGAGIRDPLWPVPVPKP
		1		Į.		HRAVVGANAHISFCPPOELSKR
		1				FTAIRKTKGDGNCFYRALGYSY
		1	l	1	1	LESLLPDAFQPLLPPQAWVSPG
		1	l	1	1	ESQGAGTRDPLWLWLFRLWLL
		1		ł	1	RLLCLLLLLGETAQSRLALTW
1		1	1		l	GRHKQGRLARLSGILGFLALRK
		1				QWLGQQVAQLLLQNLHLLLLR
						WAGLGVIVFQVSNQPAWERTG
22134	52502	A	22262	1	1772	Q.STITIQTSIQIAWERIO
22135	52502	A	22263	107	294	LHLLSFGYLTHQLLCLHLKWDS
-2.55		Ι''		1	I	HTLHHSHHTIAR*AGCSEATWS
1		1				PPRRLRAPRSRALCSGFR
		1			L	

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22136	52504	A	22264	1	474	
22137	52505	Α	22265	1	148	VKYHEFTCSFKKQITVPEDARL LK*DVRGRPSRLFLADPPPPHT VNREY
22138	52506	A	22266	509	2755	YQSQSFDEDEMNQVTDWVDPS FDDFLECSGVSTITIATSLGVNN SSHRKNGPSTLIESSRFPARKIR GNLSSLEQIYGLENSKEYLSENE PWVDKYKPETQHELAVHKKKI IEIEVETWLKAOVLGROPKOGG
						SILLITGPPGCGKTTTLKILSKEH GIQVQEWINPVLPDFQKDDFKG MFNTESSFIMFPYQSQIAVFKE FLLRATKYNKLQMLGDDLRTD KKIILVEDLPNQFYRDSHTLHE VLRKYVRIGRCPLIFUSDSLSGD
						NNQRLLVPKEIQEEWSISNIRFN PWAPTIMMKFLNRIVTIEANKN GGKITVPDKTSLELLCQGCSGDI RSAINSLQFSSSKGENNLRPRKK GMSLKSDAVLSKSKRRKKPDR
						VFENQEVQAIGGKDVSLFLFRA LGKILYCKRASLTELDSPRLPSH LSEYERDTLLVEPEEVVEMSHM PGDLFNLYLHQNYIDFFMEIDDI
						VRASEFLSFADILSGDWNTRSL LREYSTSIATRGVMHSNKARGY AHCQGGGSSFRPLHKPQWFLIN KKYRENCLAAKALFPDFCLPAL CROTOLLPYLALLTIPMRKSSFR
						FSFYSKDIGEGLPSGRRTLWGRI GKWEGPGLDRGTWDD*TPDSG DEA\QLNG\GHSAEESLGEPTQA TVPETWSLPLSQNSASELPASQP OPFSAQGDMEENIII\EDYESDG
						DIEASLLIRLLHSFHFCFHFSGT
22139	52507	A	22267	2	161	
22140	52508	A	22268	I	599	VTRLFFQPGYGTLQPQRLLMPK KNRIAHYELLFKLEGVMVPKKI DVPIPKHPELA/DRNVPNLHVM KPMQSILKSIRGYVKLEQFA WIR HFYWYLTK*GYQGVSISSRDVL HLPPIEIVPCHPYGSPSRRLAR PSG*KVLEG*ANLRGLHKNGEA DKRLPTRRECLCHPGA/DKKAE AG/ALGSNPNFQFRGGGRGR GOJPPQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first eodon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22141	52509	A	22269	1	345	KHPELADKNVPNLHVMKAMQ SLKSRGYVKE\DYLHLPPEIVPA TLRRSRPETG/RPRFKGLEGERP ARLTRGEADRDTYRRSAVPPG ADKKAEAGAGSATEFQFRGGF GRGRGQPPQ
22142	52510	A	22270	2	161	
22143	52511	Α	22271	2	641	RRPQHRACSFFFSPGTGFCSRR CLMPKKNRIVAIVELLERGEGVM VAKKDVHMPIKHPELLADIKNG APTFHVMKGHAGLSKSPRATV KGTSFAWGDIFYWYLTN-GY QGVSISSRDYLSSCPREICCLAT ATARSPSKRIGKAFGLKRSV GLRRPGEPFTRGGKFDRGVLT GRIAVATLVADKKAEG/ALGS SPPINFQFRGGFGRGRG/PPQ
22144	52512	A	22272		1693	MINSYPYQNEOGSNFEGYKA EFRPOTOTOEVIKGMEDSANFEGYKA EFRPOTOTOEVIKGMEDSANFEGY TVNREVTTDNPYTISVTNKTLS ARIKIMFMPRAYELKYTVIKM AFELSTRESKERM/DGSFETVLT DVIEGKTMSGYDRSRVNLPNF NNQVIFRVYRKTPDSNDSNVV DAIQVRSYAEVIDAKFRYPLTG LLFVEFDSKMFPNQLPTISIRKN WKINNYPSNYPDESRTYNGNW DGTFKKAWTNNPAWVLYDLM INQRYGLDQKELGISVDKWAL AVELOVATORIONAL TRANSTROMANATORIONAL ATEVICIIQSOTDAPREPAYIET RAT*CLMMSKTCINRTLSQVSI/VEGHSTVRNNVTSITAIGAHTV RAFAGYCDGWILKTNLRSHTV RAFAGLEGMIPTIGDVANISDNF WSNLTMNLSSTRICHTUNGFTP VRSNLTMNLSTRICHTUNGFTP VRSNLTMNLSTRICHTU

SEO ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
22145	52513	Α	22273	I	1843	MEDNLISINKIKILLSVSDGEIDE
						TFSLKQLMFNSVPVQNEDGSFN
	ļ					FEGVKAEFRPGTQTQEYIKGME
						DSSSEVTVNREVTTDNPYTISVT
	l					NKTLSAIRIKMFMPR\AYELKVT
						VIKMAFELSTRCSKRLM/DGSFE
						TVLTDVIEGKTMSGYDRSRRV
					İ	NLPNFNNQVIFRVVRKTPDSND
						SNVVDAIQVRSYAEVIDAKFRY
						PLTVLLFVEFDSKMFPNQLPTIS
						IRKRWKIVNVPSNYDPESRTYN
					}	GNWDGTFKKAWTNNPAWVLY
						DLMINQRYGLDQKELGISVDK
						WALYEAAQYCDQMV\LTAKA
						ARNLATFVT/CIIQSQTDAYKVV
						RDICSIFRGMSFWNGPREPAYIF
						TNDNVVNGDFSYT\SQARRACT
						RRAT*CLMMSKTCINRTLSQYS
		1				I/V/EGHSTVR\NNVTSITAIG\AH
						VEA/KANRRGRWILKTNLRSTT
						VNFATGLEGMIPTIGDVVAISD
						NFWSSNLTMNLSGRLLEVSGSQ
						IFLPFRVDARAGDFIIVNKPDGK
						PVKRTISSVSADGKTIEINIGFGF
						PVKPNTVFAIDRTDLALQQYVV
		1				TKIDKGDDDEEFT\SKSRRWSTI
						LISTMKLITGLTSTTDRQASLSQ
						IR/CPKPENVK\CPQSRESSRG
22146	52514	В	22274	1	1452	

2871

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
	l			sequence		
22147	52515	A	22275	I	1902	MIOKVISGSKGGSQKPHNPVEM
						EDNLISFNKIKILLAVSDGEIDET
		l				FSLKQLMFNSVPVQNEDGSFNF
						EGVKAEFRPGTOTOEYIKGME
						DSSSEVTVNREVTTDNPYTISVT
						NKTLSAIRIKMFMPR\AYELKVT
1						VIKMAFELSTRCSKRLM/DGSFE
l						TVLTDVIEGKTMSGYDRSRRV
						NLPNFNNOVIFRVVRKTPDSND
			1			SNVVDAIQVRSYAEVIDAKFRY
			ŀ			PLTGLLFVEFDSKMFPNOLPTIS
						IRKRWKNVNAPSNYDPESRTY
		l			ì	NGNWDGTFKKAWTNNPAWVL
						YDLMINORYGLDOKELGFSVD
						KWALYEAAQYCDQMV\LTAK
						AARNLATFVT/CIIQSQTDAPRE
						PAYIFTNDNVVNGDFSYT\SOA
						RRACTRRAT*CLMMSKTCINRT
						LSOYSI/V/EGHSTVR\NNVTSIT
						AIG\AHVEA/KANRRGRWILKT
			İ			NLRSTTVNFATGLEGMIPTIGD
						VVAISDNEWSSNLTMNLSGRLL
		1				EVSGSOIFLPFRVDARAGDFIIV
		1	İ	i		NKPDGKPVKRTISSVSADGKTI
						EINIGFGFPVKPNTVFAIDRTDL
		l			•	ALQQYVVTKIDKGDDDEEFT\S
		1				KSRRWSTILISTMKLITGLTSTT
		ı	Į.		i	DROASEVKPVNFTSSRHOAOPE
		1				VGLIPPPLWPQGKGIIAQTSKSS
22148	52516	A	22276	1	675	Total Carroll Carroll
22149	52517	A	22277	155	700	SGVLVGHALTAROPSSGRRLV
		ľ				VDHSANRRGRWILKTNLCSTT
		l				VNFATGLEGMIPTIGD/GDFIIVN
		l				KPDGKPVKRTISSVSADGKTIEI
		I				NIGFGFPVKPNTVFAIDRTDLAL
		l				QQYVVTKIDKGDDDEEFT\SKS
1		I		l		RRWSTILISTMKLITGLTSTTDR
		l				QASLSQIR/CPKPENVK\CPQSRE
		l				SSRG

NO:	of peptide sequence	hod	SEQ ID NO: in USSN 09/540,217	location of first	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22150	52518	Α		1	1871	MEDNLISINKIKILLAVSDGEIDE FTSLKQLMFNSVPVQNEDGSSN FEGVKAEFRØTGTGTGEYIKGME DSSSEVTVNREVTTONPYTISVT NKTLSAIRIKMFMFRIAYELKYT VIKMAFELSTRCSKRLM/DGSFE TULTDVIEGKTMSGYDRSRRV NLPNFNNQVIFRVVBKTPDSND SNVVDAIQVRSYAEVIDAKFRY PLTGLLFVEFDSKMFPNQLPTISI IRKRWKIVNYPSNYDPESRTYN GNWDGTFKKAWTNNPAWVLY DLMINGRYGLDQKELGISVDK WALYEAAQYCDQMVLTAKA ARNLATFVTCIIQSQTDAYKVV RDICSIFRGMSFWNGESISVIID RTEPRAVITIONVVNGPSYTY SQARRACTRRAT*CLMMSKTGI NTLSQYSIV/EGISTVNINNT SITAIGAHVEARPTDCGRWILK TNLRSTTVNFATGLEGMIPTIGD VALSIDNEWSNLTMNLSGRLQ EVSGSJIFLPFRVDARAGDFNIY KPDARFVKRTISSVSADGKTI ENIGFGFPVKPNTVFAIDRTDL ALQQYVVTKIDKGDDEEFTIS KSRRWSTILISMKLTIGT.TSTT DRQASLSQIR/CPKPPENVKCPQS RESSRG

2873

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22151	52519	A	22279	3307	5305	CRSSONTQETSPDRALLVNLRP SQOPLLALWYPAEGVGGKGHG LPPRSFFRMDNQLVPAVSDGEI DETFSLKQLMFNSVPVQNEDGS FNEGVKAEFPROTTQTGVIKG MEDSSSEVTVNREVTTDNPYTI SVTNKTLSAIRIKMFMRNAYEL KVTVIKMAFELSTRCSKRLM/D GSFETVLTDVIEGKTMSGYDRS RVNLPNFNOVJFRVVKRTPD SNDSNVVDAIQVRSYAEVIDAK FRYPLTGLLFVEFDSKMFPNQL FNISIKR WKINVPSNYDPESS TYMGNWDGTFKKAWTNNPAW LYDLMINQRYGLDQKELGISV ULYDLMINQRYGLDQKELGISV ULYDLMINQRYGLDQKELGISV VXDLCSIFRGMSFWNGESISVII DRREPAYIFTNDNVVNGDFSY TSQARRACTRRAT*CLMMSKT CINRTLSQYSIV/EGHSTVRINN VISITAIGAFTVRIN VISITAIGAFTVRINSGGMIPT IGDVVAISDNFWSSNLTMNLSG FLIEVSGGGIFLPFRVDARAGGMIPT IGDVVAISDNFWSSNLTMNLSG FILVRYGGFYPYKRNYSDADGFT TSKSRRWSTILLSTRINSVSADG FITNRPOGKPVKRTISSVSADG FITNRPOGKPVKRTISSVSADG FITNRPOGKPVKRTISSVSADG FITNRPOGKPVKRTISSVSADG FITNRPOGKPVKRTISSVSADG FITNRPOGKPVKRTISSVSADG FITNRPOGKPVKRTISSVSADG FITNRPOGKPVKRTISSVSADG FITNRPOGKPVKRTISSVSADG FITNRPOGKPVKRTISSVSADG FITNRPOGKPVKRTISSVSADG FITNRPOGKPVKRTISSVSADG FITNRPOGKPVKRTISSVSADG FITNRPOGKPVKRTISSVSADG FITNRPOGKPVKRTISSVSADG FITNRPOGKPVKRTISSVSADG FITNRPOGKPVKRTISSVSADG FITNRFOGKPVKRTISSVSADG FITNRFOGKPVKRTISSVSADG FITNRFOGKPVKRTISSVSADG FITNRFOGKPVKRTISSVSADG FITNRFOGKPVKRTISSVSADG FITNRFOGKPVKRTISSVSADG FITNRFOGKPVKRTISSVSADG FITNRFOGKPVKRTISSVSADG FITNRFOGKPVKRTISSVSADG FITNRFOGKPVKRTISSVSADG FITNRFOGKPVKRTISSVSADG FITNRFOGKPVKRTISSVSADG FITNRFOGKPVKRTISSVSADG FITNRFOGKPVKRTISSVSADG FITNRFOGKPVKRTISSVSADG FITNRFOGKPVKRTISSVSADG FITNRFOGKPPPKDVKCP QSRESSRC
22152	52520	Α	22280	3	412	PAAVA*VKTEPETPGPSCLSQE GQTAIVKTEESSELGNYVIKIDH LETIQQLLTAVVKKIPLITAK\W QRAMTMRKVLQEILEKNPRFH HLTPLKTKHIAHWCRCHGYTPP DPESLRNDGDSIEDVLTQIDSEP
22153	52521	A	22281	2	513	IFACWGKQAWPACCNSLRGQA VKGNQLLPVSLVKRKTTLAPNT QTASPRALADSLMQLARQVSR LEVGRAKREPENEEEVDILSLSE PVKINIKKEQEEKQEEVKFYLPP IFGSEFIGDVTQKRLEEVDSTFG DDLVQGFSGGISRRYGEKPGVQ DLEVEPDSVTEMLQFYD DLEVEPDSVTEMLQFYD

SEQ ID NO:	of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22154	52522	A	22282	1	1197	MAWPCISRLCCLARRWNQLDR SDVAYPLTLHGYSDLDSEEPGT GGAASRRGQPPAGARDSGRDV PLTQYQRDFGLWTTPAGFKDPP PGRGFGAGGRGKSSAQSSAPP PAGARGVYLPIGADAAAAV TTSYRYGLGRDRNESPPCGGRT RRPGARGMGWAAERRLEPGS HATSELPASEVTPWSVGTA GGAFAAPCPETVLEHPRAGSAP LPSQPPSWGQPSEWFAFSRVGT GLPLTPTAGSRARGARPCP ALPGHCLLDRTYTGLOTLGAET LLAVVNSAAMNVGVQVVDVE LIKHSLGEDCIYPQSSESDISDA
						PPSLPLTIPAPVKASSPIKQSHEP VPDTSVEKGS\PGSCPFHL*GPL SHLGSSPGFLLWRPPGLLSSVA
22155	52523	A	22283	131	677	PSSLS/CDIFLRSPISTPSPSPLPRT TYSTPYHVKQGTAGSVINPPYV IMDKQPGQVIGATTPSTGSPTN KISTASQISQGTGSPVPKIHGSSF VTSTVKVIIKQEPGEAPHVPAT GAASQSPLPQYVTVKGGHMIA VSPQKQVITPGEGIAQSAKVQP SKVJCQGIG*CLPTLARADLLYS
22156	52524	A	22284	3	5128	LLKHISSQSSPQAAVLTIPSQLK PLSYNTSGGVQTILMPVNKVVQ SFSTSKPPAILPVAAPTPVVPSS APAAVAKGEDASCFSAKSVEQ YYGWNIGKRRAAEWQRAMTM RKVLQEILEKNPRFHHLTPLKT KHIAHWCRCHGYTPPDFESLEM DGOSIEGVLTQIDSEPDHGSLG DGKSSSVGPTAVVTLLACHLEC PSSFSSADNLCRKLEDLQQFQK REPENEEEVDILSLSEPVKINIKK EQEEKQEEVKFY
22157	52525	Α	22285	112	651	GGLCTMARTKADWPANRTGG KAPIRKQLAYKKPASQECGPLT GGYKKPHRYRIPGTVGGSVKFR RIYQKSTIELLIRKLPFG/RRL/R ELAQGL*NKILRFQSAAIGIALOG GKWRPHLVWPFLKDTNLVC*S MARKYTIIAKKTFQLAPPHTVE NRALRIHSWMGKHFISQKKKK NFSSSCYW
22158	52526	Α	22286	1	339	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nuclcotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
22159	52527	Α	22287	2	1369	EPAPPARRSLSAAAAASGTTVD
	1	l				TASHSLVFSQQ\LNMQREIGFRV
		1				NCTVAM*DVYFKAHRAVLAAF
	1		1	ł		SNYFKMIFIHQTSECIKIQPTDIQ
	1	1				PDIFSYLLHIMYTGKGPKQIVD
	İ					HSRLEEGIRFLHADYLSHIATE
	l	1		!		MNQVFSPETVQSSNLYGIQISTT
	1	1				QKTVVKQGLEVKEAPSSNSGN
	İ	1				RAAVQGDLPQLQLSLAIGLDDG
	1	1				TADQQRACPATQALEEHQKPP
	1	ł		ĺ	i	VSIKQERCDPESVISQSHPSPSSE
		1			l	VTGPTFTENSVKIHLCHYCGER
	ŀ					FDSRSNLRQHLHTHVSGSLPFG
ĺ	ĺ		İ			VPASILESNDLGEVHPLNENSE
						ALECRRLSSFIVKENEQQPDHT
		ļ				NRGTTEPLQISQVSLISKDTEPV
						ELNCNFSFSRKRKMSCTICGHK
						FPRKSQLLEHMYTHKGKSYRY
		1				NRCQRFGNALAQRFQPYCDSW
		l				SDVSLKSSRLSQEHLDLPCALES
						ELTQENVDTILVE
22160	52528	Α	22288	363	947	STARRGKSRSRPAVALQRQPSA
		l				ASRSPSSSRRRRGVSKEVSVPLA
		l		1		RTKQTARKSTN\GK\APRKQLA
		l			i	YKKPARKSA\PSTGGVKKPHRY
				}		RPGYCGRSVKFRR\YQKSH*DF*
		l		Ī		FRKLPFQAVWVRENLLKDF*K
						QILRF\QSRSYRVALQGGQVEA
						LSGVGLF*KTTNLLC*SMPKRV
		1				NNYCQKDIPAKHARIPWRTVL
22161	52529	Α	22289	1	92	
22162	52530	С	22290	10	198	
22163	52531	В	22291	74	205	

2876

SEQ ID SEQ ID NO: Met SEQ ID NO: Meteodide No: well-optical to lead Amino acid sequence No: optical to lead No: optic	ble nucleotide
	cleotide insertion)
22164 52532 A 22292 2 1914 RGHCEPSRAAP:	
ARDPGRRRGPA	
	GQAAPQPMEP
ENIVANTVLLK	AREGGGGNRK
GKSKKWRQML	QFPHISQCEEL
RLSLERDYHSLO	CERQPIGRL\LF*
EFCATRPELSRO	IAFQDGMAEY
EATPDEKRKAC	GRRLMONFL\S
HTGPDLIPEVP\	
EQGPCKELSQE	TRVTHEYLSV
APFADYLDSIYE	
REAI\TKNTLRO	
EVCACOVRATO	
KKRIKKRKGEA	
KVN\SRFVVSLA	
CLVLTLMNGGE	
AGFPEARAVFY	
HRERIVYRDLK	
RISDLG\LAVHV	
\TVGYMAPECL)	
WALGCLLYEM	
KKIKRE\EVERL	
FSPQARSLCSQL	
CRGGSAREVKE	
LGAGMLEPPF\K	PDPQAIYCKD
VLDIEQFSTVKC	VELEPTDQTF
YQKFAT\GSVPI	PGKNEQMVET
ECFQELNVFGLI	OGSVPPDLDW
KGQPPAPPKKG	LLQRLFSSPKD
	LPYPPLAPSPRP
22165 52533 A 22293 102 403	
22166 52534 A 22294 1086 1436	
22167 52535 A 22295 965 1231	
22168 52536 A 22296 1434 2215 TPSFSLRTGVNK	EHWVLLGEST
EDGRW\MFTRG	
LRSRNLOCORIF	
LHPN\QAELIVG	
KTDHNEQLIPER	
DASLHGQLFNS	
GG\IGDEVTQFII	
ALQCRFSPDSTI	
CKIWRTSNFSLM	
GE\SSRG\WMW	
VTASSNNLARL	
YGGHQKAVVC	PFNDSVLG
22169 52537 B 22297 158 385	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nuclcotide	Nuclcotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
22170	52538	A	22298	145	1232	LPVRAEPTRAAAMSGDEMIFDP
						TMSK/NMKKKKKKPFMLDEEG
					i	DTQTEETQPSETKEVEPEPTED
						KDLEADEEDTRKKDASDDLDD
			1			LNFFNQKKKKKKK\TKKIFDIDEA
						\EKGVKDL\KI*SDVQEPTEPED
				İ		DLDIMLGHKKKKKKKNVKFPDE [*]
				1		DEILEKDEALEDEDNKKDDGIS
	ŀ	1				FSNQTGPAWAG\SERDYTYEEL
						LNR\VFNIMREK\NPGYWLPGG
						RKRKFGPWKPPQV\VRVGTKKT
				İ	i	FFCPLLQDICKLLHRSAQSISFA
						FLLG*IGVPSGSIDG**PNL*SKG
						RF\QQKQIENVLRRYI\KEYVTC\
				1		HTC\RSPDT\IL\QKDTRLLFPYS
		1				AETC\HS\RCFCWPVFKTGLPQA
						VHGQSRGTAPVPKA
22171	52539	В	22299	50	319	
22172	52540	A	22300	3	235	LLLYPLRSLPENPLRLVQQIYSF
		1	1			LKGSSEK*NDLPRVPLLELGVG
		l	1			LLPPNQYSCSRAKPCLTCGLTM
		_				SLDGAQQGFW
22173	52541	A	22301	3	2849	WAKPVARASPAAVPGRQCQIR
		l				GAWSWGEGRGQPGPAPSPAGS
		1			1	PATSEESLAPMAWRCPRMGRV
	1	l				PLAWCLALCGWACMAPKGTQ\
		l			İ	AEESPFVGNP\GNITGARGLTGT
		l				LRCQLQVQGEPPEVHWLRDGQ
		l			İ	ILELADSTQTQVPLGEDEQDDW
						IVVSQLRITSLQLSDTGQYQCLV
1		l		l	ŀ	FLGHQTFVSQPGYVGLEGLPYF
						LEEPEDRTVAANTPFNLSCQAQ
				I		GPPEPVDLLWLQDAVPLATAP
20174	50540	١.	22202		3899	GHGPQRSLHVPGLNKTS LVFLFDDLGIVELVLPGNIVHGI
22174	52542	A	22302	3364	3899	
		1				MSVRPRVAAGLRVRLQPGRRW
		1				LRGPLQLGAPLGLDLLVDVPGS
		1				PRFVVGVELPLVV/EAPRPPTPP
						AAAQQARS*GLECPGRGAAAP
		l		1		REVLHLQTAHIHGPGPRGGPR
		l	1			ARPGLPGLCPP*T/FSCQEAKGE
		L		L	L	RGGAHSNGGSGSKWPPPPPPPS

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nuclcotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stnp codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
22175	52543	A	22303	1660	4652	PNPNTCLCNHVESGPCCPSTHT
						YTLTDLOPLFGVRVPTRPSGRG
	1					TOAEESPFVGNPGNITGARGLT
		l				GTLRCQLQVQGEPPEVHWLRD
		1				GOILELADSTOTOVPLGEDEOD
		1			1	DWIVVSQLRITSLQLSDTGQYQ
	1	ı				CLVFLGHQTFVSQPGYVGLEGL
	i i	l		l	l	PYFLEEPEDRTVAANTPFNLSC
						OAOGPPEPVDLLWLODAVPLA
	1					TAPGHGPORSLHVPGAAVGAW
	1	l				EGGSRLWLRAPEAGRKRWGGE
		1				VPPVTHAGAGMLRSERD
22176	52544	A	22304	54	288	SEAGQAQPAAAVGFVWTGRRA
		1				WETGEGYYSNSLSMELQL*RQ
	1	1				CI*DCFFSSSWRCSVPVYFKEEK
	i .	1				YKGNLVCLLFFK
22177	52545	В	22305	243	2641	
22178	52546	Α	22306	35	204	
22179	52547	Α	22307	244	424	PSLFKNIMTFYPNLHFLWCRGR
		l				LYLDVWRQ/VR*FVRNTNYOLP
		l				LVLHNLLSRFNTFDELV
22180	52548	Α	22308	1	477	
22181	52549	Α	22309	2	418	WYQHLLLMRASGSFQSWWKV
		1		1		KGEPAYHMANRP**SLISLRTK
	1	l				AKTGA*LFDYFVPHFIRKN*SLF
		l				TIAKAWNHPKCTSVTDWIKKM
				i	İ	WYIYTMEYYAVTRRNKIVSFA
	1	ĺ				ET*MELEVIIVSKLTQEQKTKHC
						MFSLTSGS
22182	52550	Α	22310	30	199	
22183	52551	Α	22311	547	682	LVFLTNQRLVSTHQGTW\WE*K
						*CQPVIPSL*FYFLRKFSVIVIW*
		1				*LLILP*HPMALKI/C/CCQAACS
i		l				GHFTAGTGEITRPCSISSKVLKR
		1		l		LSRL*STSGS**LVFLTNQRLVS
		ł				THQGTWMKLEAIILSKVTQEQK
				l		TKHHMLSLRSGS
22184	52552	Α	22312	2	194	CPSMIDWLKKMWHRYTMEYY
		l				AA\IKKNEIMS\FAGTWMKLEAI
						ILSKLTQEQKN\KHCMFSLITGS
22185	52553	С	22313	1	1845	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				scquence		
22104	I so s s s	Ļ	00014	1	1384	L APPODRTUOUS VINCES COLUMN
22186	52554	Α	22314	1	1384	MRFQDRTWQVPYPSQCSWGSS
						RQGYVPQARGIVLDSQEAYPSP
		1		l		GGTTLCMHDPDKQAPG/PVRRP
				l		APGN\PNRLVVSVALQFLTFHES
						GITSALRVRPLPQSV\SFQGPGC
		l				TEA*RRASICRRRVS*HSTKLDL
		1				GAVAAQQQAWVAG\PRSPQRR
		ı		l		CHQYS*AGPAWLGLQRGRGSH
		l			l	RPDTSPWHWFWALAGREEQVL
		l		l		PPESLL/RARTPGTHLAPGPGA*
		1		l	1	TRVQSGPGSWLTWAG*GTPQVI
		l		1		SS/PGAGAVGAPETTAVPTV\$IA
		l		i		PRRSVEMWPETKEHLVAVARR
		1				KWVSAQEKRLSLRGCGSEKMG
		l		l		VSPGETRVYFPALTS\RCRRRCG
		ĺ				RVSEPSPTASWAPAPSLGWAYQ
1		l				LAGGRLVLRVGLSAGWRAACP
l		İ				OGGPISWLEGGLSSGVGLSAG
		ı				WRAACPOGGPISWLEGGLSSST
		l				MRQPRAPQSSLPAPAPWGAPDP
		l				LAMLAAWIEARPGVWPTOPGP
		ı				wovswvcv
22187	52555	A	22315	11	431	RHLLAAPPPAPPAAAAAAAALSH
1	i	1				CLRSSGRLAPHTSRRLPRVVKR
1	ł					RVNALKNLQVKCAQIEAKFYE
	1					EVHDLERKYAVLYOPLFDKRF
	1	ł				EIINAIYEPTEEECEWKPDEEDEI
						SEELKEKAKIVDEKK\DEEKEDP
		l				KGIPEFW
22188	52556	A	22316	64	467	PAAWLPILVAAROLTVOMMON
					1	POILAALQERLDGLVETPTGYIE
		l				SLPRVVKRRVNALKNLOVKCA
		l		Į.		QIEAKFY\EEVHDLQRKYAVLY
	1	l				OPLFDKRFEIINAIYEPTEEECE
						WKPDEEDEISEELKEKAKIEDE
22189	52557	A	22317	2	177	SSESSISSESICIO INTESE
22190	52558	B	22318	228	377	
22190	52559	A	22319	630	767	WRVKFKNTVKIOANF*KSRFIH
22191	32339	1	22319	0.50	l'*'	LTVVPVTILSOVTLOLTMSPKT
	L	L			L	LIVVEVIILOQVILQLIMSPKI

SEO ID	SEO ID NO:	Met	SEQ ID NO:	Nuclcotide	Nucleotide location of last	Amino acid sequence (X-Unknown,
NO:	of peptide	hnd	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
22192	52560	A	22320	80	1362	VTACAAPAAWLPILVADIWSSY
22192	32360	A	22320	80	1302	
		1				NMADIDNKEQSELDQDLDDVE
		1		l		EVEEETGEETKLKARSA*LFR
						MM\QNPQILA\ALQERLDG/LW
		l				VETPT\GYIESLP\RVVKRR\VNA
		1		l		LKNLQVKCAQKETQ\FYE\EVH
		1				DLERKYAVLYQPLFDKRFEIIN
		l				AIYEPTEEECEWKPDEEDEISEE
1	İ					LK\EKGQIEDEKKDEEKEDPKGI
		ı				P*IW\LTVFK\NVDLLSDMVQEH
						DEPILKHLKDIKVKFSDAGQPM
		l l				SFVLEFHFEPNE\YFTN\EVLTKT
		l				YRMRLEPEPDDSDHFSFDGQEI
		l				MGCTGCQIDWKKGKNVTLKTI
		l		i		RK*/RRNHKGRGT\VRTGH*NQ
		l				FPNDSFSNFFCPLLKSPESGDLD
		l				ED\AEAILAADFEIG\HFL\RERII
1		l				PRSVLYFTGEAIEDDDDDDYDEE
		l				GEEADEEGEEGDEENDPDY\D
		l				PKK\DQNPAECKQQ
22193	52561	Α	22321	3	425	GCGCGGAAARGSPAPGRPAAS
		1		i e		PPDCPLWLQGCYPPPSCDALSA
		1				TEADGCD*IYPPDTSRDGPHQA
İ		1		İ		SLPGESSSFPGQPNDSYLPERGS
	ł	1		l		ERSRQASYATPAAETQDPDEGL
						POPGPEALPGGLQVPKSAAPFC
						GAQHAAGQ
22194	52562	Α	22322	2	285	SRFEPRVRPTGGDRPHOASPPG
		1				DSSSFPGQPNDSRLPECGSECRG
		l				QASYATPAAETQDPE*RSSPTRS
		l		l		*SP\PGGFOVPKSAAPFCGAOHA
		l		l		AGO
22195	52563	A	22323	85	473	FTMPAVALVPKELYLSSSLKDL
	1	1		I	1	NKKTEVKPEKISTK/ODYVHSIL
1		ı	1	l	I	GTANIKKAIEEAERLSESLKLRY
		l		l		KEAEVRK*LEEKDROKEAOOL
		1		l		OOKROETGRE\DGGTLAKVSLE
		l		l		NVLDYODKTOKSNGEKSEKM
L _						IN A POLICION LOW PROPERSERIAL

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop endon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nueleotide insertion)
				sequence		
22196	52564	Α	22324	1	1449	MMRAHMFVYKELKOIYKKKT
			ŀ			HPHOKVGKGYKOTLLRGRHLR
		i				GQETYEKKLTHVYETTDFKQQ
						OYYFHSILGPANIKKATGETER
ŀ						LSESLKLRYEEVEIWKKLEEKD
						RQGEAQWLQQKRQETGREDGS
						MLAKGSLEIVLDSKDKTOKSN
						GEKNEKCETKEKGAITAKELYT
				1		MMMDKNISLIIMDAQRMQDYQ
						DSCILHSLSVPEKAISPGVTASW
						IEAHLPDDSIDTWKKRGNVEY
				l		MVLLDWFSSAKDLQIGTTLWH
			ŀ			LKDALFKWEKGGYKNWFLCY
						SQYTTNAKVTPPPQHQNEELSIS
				i		LDFTYPSLEESIPSKPAAEMPPP
1						PIKVDEDIELISDQISDNDQNER
						TGPLNISIPVESVAASKSDVSPII
						QPVPSIKNVPQIDHTKKLAVKL
1						PEEHIIKSESTNHEQQSPQNEKV
			l			IPDCSTKPVVSSPTLMLTDEEKA
						HIHAETALLMEKNKQEKELQE
						RQQGKQ/K/EKLRREEHEQKAK
22197	52565	Α	22325	185	2983	FIMPAVASVPKELYLSSSLKDL
1			İ			NKKTEVKPEKISTKSYVHSALK
					\	IFKTAEECRLDRDEERAYVLYM
						KYVTVYNLIKKRPDFKQQQAD
						CAYFLGQTVHILFQHRALLEKK
						YRAVGAITAKELYTMMTDKNI
i						SLIIMDARRMQDYQDSCILHSL
1						SVPEEAISPGVTASWIEAHLPDD
1						SKDTWKKRGNVEYVVLLDWF
1						SSAKDLQIGTTLRSLKDALFKW
						ESKTVLRNEPLVLEGGYENWL
						LCYPQYTTNAKVTPPPR
22198	52566	Α	22326	313	3720	FIMPAVASVPKELYLSSSLKDL
	'	1				NKK\TEVKPEKISTKSYVHS/AP
						RKIFKTAEECRLDRDEERAYVL
						YMKYVTVYNLIKKRPDFKQQQ
						DYFHSILGPGNIKKAVEEAERLS
						ESLKLRYEEAEVRKKLEEKDRQ
						EEAQRLQQKRQETGREDGGTL
						AKGSLENVLDSKDKTQKSNGE
				l		KNEKCETKEKGAITAKELYTM
1				l		MTDKNISLIIMDARRMQDYQDS
						CILHSLSVPEEAISPGVTASWIE
1				l		AHLPDDSKDTWKKR
$\overline{}$				L		

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codnn far last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
22199	52567	A	22327	46	562	LLOGPGFCGDSMPVEARPSAA
						WRGGRAPGWTPFSPPDRETWK
ĺ						PQ/RASQGESGQRRFGPCPRSGG
ĺ						RPPGPGSAAHSSRSQRWRKASR
						A WPAAPRKGLLPPAQA WPPTP
1						AAGL*GFLAACKR/PPVGGRGP
1						APAPCRPASSRCFLICDSGPPCL
						CSASRAAWMGSAASSRVLFIEG
22200	52568	В	22328	51	445	
22201	52569	A	22329	51	366	CQWNTQTQVCYKQDVQSITAL
				l**		GSAAQCTCLSSPR*SGKFKLLFS
1						PGLPGTLVPSTIPATSAPRA/SHR
1	ļ	l				AGEAWVGEPGRALAALQNSS\P
	ŀ	1				DWAGYOGLPCKPSIRAA
22202	52570	A	22330	257	916	SPSGSNLETHLRAPDLGGPCPP
	ł					GPRWWA*TPQPGHPQTRPSPAA
	1					QPCPFPPQCQQLIHCPC/SPAPGT
						VAAPPAP\PTPASQCLLCPWTSA
						PVCSPAPTFPCPMAPVMAFMLP
						SYSFP/PGTPNLPQAFFPSQPQFP
		l				SHPTLTSEMASASQP\GSPAGPR
		l				SPDSHVLVQPPGPPHHRPWVGP
		l				PHRSFSPAAARPCSSTCCSWRK
						PLRVALEPWGPQGPQRQQL
22203	52571	Α	22331	151	1232	GRLGDARGPQGPEAPGGEEAA
		l				RADSTRACRSCGLLLGGRRGCR
						PSLKNAELLELTVRRVQCVLRG
1		1				RAREREQLQAEARRALRCRLHP
						VACTKVHTFVSTCQAIDATVA
						AELLNHLLESMPLREGSSFQDL LGDALAGPPRAPGRSGWPAGG
						APGSPIPSPPGPGDDLCSDLEEA
						PEAELSOA/PC*GARLGARSPGO
1						PDHSPNCPGVSGGLGDQCQPES
1						CRGGARPSLGSPPLLPGVOMW
1						WG*GPGSLPGSSLPPLMDGLOG
		ĺ				QPLVTSPAQRPSPVS*KNF*GPC
0.		ĺ		ĺ		SSGSGWREGATGRRKNFVELP
						ALSQVSPSPAFNPRLCGLWGQR
						WQKLVLGTSVPGSPGLNKSLN
						LPLORGDEROVH
22204	52572	Α	22332	1	1524	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
22205	52573	Α	22333	3	8875	EDGSLLQEVGIICLARGPGCGPE
		İ				TPLYSPATGLALQLQGPAAMG
						ALWSWWILWAGATLLW\GKSG
		l				EDWISGPTTVFSQPGLTQEASV
						DLKNTGREEFLTAFLONYQLA
						YSKAYPRLLISSLSESPASVSILS
		l				QADNTSKKVTVRPGESVMVNI
		l				SAKAEMIGSKIFQHAVVIHSDY
						AISVQALNAKPDTAELTLLRPIQ
		l				ALGTEYFVLTPPGTSARNVKEF
		l				AVVAGAAGASVSVTLKGSVTF
		İ				NGKFYPAGDVLRVT
22206	52574	Α	22334	2	2214	ISATDGPLAPCHGLVPPAQYFQ
ŀ						GCLLDACQVQGHPGGLCPAVA
						TYVAACQAAGAQLGEWRRPDF
						CPLQCPAHSHYELCGDSCPVSC
i	İ				l	PSLSAPEGCESACREGCVCDAG
					ł	FVLSGDTCVPVGQCGCLHDGR
						YYPLGEVFYPGPECERRCECGP
		1				GGHVTCQEGAACGPHEECRLE
						DGVQACHATGCGRCLANGGIH
						YITLDGRVYDLHGSCSYVLAQ
						VCHPKPGDEDFSIVLEKNAAGD
					1	LQRLLVTVAGQVVSLAQGQQV
	l					TVDGEAVALPVAVGRVRVTAE
		ĺ				GRNMVLQTTKGLRLLFDGDAH
						LLMSIPSPFRGRLCGLCGNFNG
					Į.	NWSDDFVLPNGSAASSVETFG
	ł					AAWRAPGSSKGCGEGCGPQGC
		ŀ				PVCLAEETAPYESNEACGQLRN
		ĺ				PQGPFATCQAVLSPSEYFRQCV
					l	YDLCAQKGDKAFLCRSLAAYT
	l					AACQAAGVAVKPWRTDSFCPL
					l	HCPAHSHYSICTRTCQGSCAAL
	İ					SGLTGCTTRCFEGCECDDRFLL
						SQGVCIPVQDCGCTHNGRYLPV
	1					NSSLLTSDCSERCSCSSSSGLTC
	1					Q\AAGCP\PG\RVCEVKAEAR\N
		1	1		l	CW\ATRGL\CVLSVG\ANL\TTF
	1		1			DGARGATTSPGVYELSSRCPGL
			1			QNTIPWYRVVAEVQICHGKTE
						AVGQVHIFFQDGMVTLTPNKG
	l		1			VWVNGLRVDLPAEKLASVSVS
				l		RTPDGSLLVRQKAGVQVWLGA

SEQ ID	SEO IN NO.	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last aminn acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		· · ·
		ᆫ	<u></u>			
22207	52575	Α	22335	3	7639	ITCPENSHYEVCGPPCPASCPSP
		1				APLTTPAVCEGPCVEGCQCDA
1		l				GFVLSADRCVPLNNGCGCWAN
1		1				GTYHEAGSEFWADGTCSQWCR
		l				CGPGGGSLVCTPASCGLGEVCG
1		1				LLPSGQHGCQPVSTAECQAWG
1						DPHYVTLDGHRFDFQGTCEYL
		l				LSAPCHGPPLGAENFTVTVANE
		l				HRGSQAVSYTRSVTLQIYNHSL
1		l				TLSARWPRKLQVDGVFVTLPF
		l		l		QLDSLLHAHLSGADVVVTTTS
		1				GLSLAFDGDSFVRLRVPAA
22208	52576	Α	22336	2	224	HCYMVVQLWKPRSLRRKSDQL
		ı				WSSWNQLNTSELSSFISAEMQT
		1				EAFDCGSMAGRM*GQGRYLLA
1		l				ALWDSSVPLS*POAEPWSGVGP
		1				AHLTE/LLSPSRFVSISDLLAPKD
		l				LGTESQVSMEV*KDMGRFHWE
						DIPP*A*VFVIFVFQIFISRTY\DA
		l				TTHFETTCDDIKNLL*R*QGRYL
						LAALWDSSVPLS
22209	52577	Α	22337	2	206	LSSSYLDOPCYETINRIKLYSES
						LARYGKSPYLYPLYGLGELPOG
ļ			1			FAR*EPVFKTSVIQNLIFNIMCI
22210	52578	Α	22338	2	457	
22211	52579	Α	22339	2	1556	FVFPSEVAVGLALSPASIFLSFSS
		l				PFLRAQERLPSLLWWARSPCAF
				ĺ		SLLGSCVRACPAMNEEYDVIV
		l		Ì		LGTG\LTECILSGIMSVNGKKVL
		l				HM\DRNPYYGGESASITALEDL
İ						YKRFKIPGSPPRVKWGEERDW
			1			NVDL\IPKFLKANG\QLVKMLL
		l				YTEVTRYLDFKVTEGSFVYKG
		l				GKIYKVPSTEAEALASSLMGLF
			1			EK\RRFKEFLVYVANFD\EKDPR
į		l				TF\EGIDPKKTTMRDVYKKFDL
	ĺ	1		l		GODVIDFTGHALA\LYRTDDYL\
	l					DOPCYETINRIKLYSESLARYG
		l				KSPYLYPLYGLGELPOGFARLR
		1				CYLWEGTYMLNKPIE\EIIVOE
		1		1		WGKVIGCKI*REEIARCMQLIC
1	l	1		1		DPSYVKDRVEKVGQVITVICIP
1	l	1		l		QPPPSKNTNDANSC\QIIIPQNQ\
	l	ı		1		VNRKSDIYVC\MISFA\HNVAAQ
		l				GKSIAIVSTTVETKEPEKEIRPA
1		ı		I		L\ELL\EPIGTEILVSISDLL\VPKD
1		ı		l		LG\TESQIFIS\RTYDATTHFETTS
		l				D\DIKNIYKR\MTGSEFDFEEMK
22212	52580	A	22340	66	420	S. S. H. H. K. K. HOSEI DI BENK
22213	52581	A	22341	64	140	
22214	52582	A	22342	2	254	
	2002	10		1-	·	1

22215 52583 A 22343 82 3530 HILIVAMPEPTKKEENEVPAPAI PPEPSKEKEAGTTPAKDWTL ETPPGEQAKQNANSQLSILE KPQGGTVKVGEDITFIAKVKA DLSEKPTIKWPK/GKWMDLA KAGKHLQLKETFERHSRVYTF MQIIKAKDNFAGNYRCEVTYK DKFDSCSFDLEVHESTGTTPNI IRSAFKRSGEQGEDAGELDFSC LLKRREVKQGEPQVDWEI LKNTKPSEYEKIAFQY/GITDLA GMLKRLKRS	SEQ 1D	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
22215 52583 A 22343 82 3530 HILIVAMPEPTKKEENEVPAPAI PPEPSKEKEAGTTPAKDWTL ETPPGEQAKQNANSQLSILE KPQGGTVKVGEDITFIAKVKA DLSEKPTVKWFKGKWMDLA KAGKHLQLKETFERHSRVYTF MQIIKAKDNFAGNYRCEVTYK DKFDSCSFDLEVHESTGTTPNI IRSAFKRSGEQGEDAGELDFSC LLKRREVKQGEPQVDWEI LKNTKPSEYEKIAFQYGTDLA GMLKRLKRSI GMLKRLKRSI GMLKRLKRSI CKLEVKVIYQGVNTPGQPVFI EGQQSLININDF HLVAMPEPTKKEENEVPAPAI PPEPSKEKEAGTTPAKDWTL ETPPGEQAKQNANSQLSILE KPQGGTVKVGEDITFIAKVKA DLLRAPFITKKEENEVPAPAI PPEPSKEKEAGTTPAKDWTL ETPPGEQAKQNANSQLSILE KPQGGTVKVGEDITFIAKVKA DLLRAPFITKKEENEVPAPAI PPEPSKEKEAGTTPAKDWTL ETPPGEQAKQNANSQLSILE KPQGGTVKVGEDITFIAKVKA DLLRAPFITKKFGKWMDLAS AGHH,QLKETFERHSRVYTE MQIIKAKDNFAGWYRCEVTYK DKFDSCSFDLEVHESTGTTPNI IRSAFKRSGEQGEDAGELDFSC LKKREVKQGEEPQVDVWE LKNAKPSEYEKIAFQYGTTDLR GMLKRLKRRREK GMLKRLKKRRREK EGY*TAKTQKLYPDKVVMAT KPLKTRSPKPAKYGSPHDTAT WTGSCLGLEAS*HSA 22346 2 39 FQFCVSLFVYIQLASDVLPE*P HKKKPPTLSHWFLK*NLHL*N NTKALKYRKLV*LTSQKH*OM TYPECNYLKTN*VTTNTKVK* EGY*TAKTQKLYPDKVVMAT KPLKTRSPKPAKYGSPHDTAT WTGSCLGLEAS*HSA 22349 1 113 22220 32588 A 22349 1 2299 LRHAKWFQARANGLKSCVIVI VLRDLVTRYPTWGPLGKOWPL LLCEKSIGTANRPMGAGEALR VLECLASGIVMPQHALRAF GQLHKVLGMSPLPSSMPKKFV GGV*TAKTQKLPDKVMAT CLCLASGIVMPQHALRAF GQLHKVLGMSPLPSSMPKKFV CAGNER	NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
22215 52583 A 22343 82 3530		sequence		09/540,217		of peptide sequence	deletion. \=possible nucleotide insertion)
PPEPSKEKEAGTTPAKDWTL					sequence		
PPEPPSKEKEAGTTPAKDWTL ETPPGEQAKQNANSQLSILFII KPQGTVKVQGDITEIAKVKA DLSEKPTIVKWPIK/GKWMDLA KAGKHLQLKETFERISRYVTF MQIIKAKDNFAGNYRCEVTYK DKFDSCSFDLEVHESTGTTPNI IRSAFKRSGEQEQEDGELDPSC LLKREVKQQEEPQVDWEI LKNTKPSEYSKIARQY/GTDLX GMLKRLKRSI TWYRGNPKPKITWMKNKVAT DDPRYMMSNQGVCTLEIRKP PYDGGTYCCKAVIDLGTVEIE CKLEVKVIVQGVNTPGQPVFI EQQQSLINKDF EQQQSLINKDF GCQQSLINKDF CKLEVKVIVQGVNTPGQPVFI EQQQSLINKDF FPPCFSKEKEAGTTPAKDWTL ETPPGEQAKQNANSQLSILFII KPQGGTVKVGEDITTIAKVKA DLREPTIKWFRGKWMDLASI AGKHLQLKETFERHSRVYTFE MQIIKAKDNFAGNYRCEVTYK DKPDSCSFDLEVHESTGTTPNI IRSAFKRSGEGEGEDGELDFSC LLKREVKQQEEPQVDWWE LKNAKPSEYEKIAFQYGITDLR GMLKRLKRRREEK GMLKRLKRRREEK FPCCVSLFVVIQLNSDVLFFP HKKKPPTLSHWFLKYHLH-NI NTKALKYRLV*LTSQKH*OM TYPFCNYLKTN*VTNTKVK* EGY*TAKTQKLYPDKVVMAT KPLKTRSPKPAKYGSPHIDAT WTGSGLGLEAS*HSA 22219 52587 A 22347 1 113 22220 52588 A 22349 1 2299 LRHAKWFQARANGLKSCVIVI VLRDLVTRYPTWGPLEGWPL LLCEKSIGTANPMGAGEALR VLECLASGIVMPQHAGLASAF	22215	52583	A	22343	82	3530	HLIVAMPEPTKKEENEVPAPAP
							PPEEPSKEKEAGTTPAKDWTLV
							ETPPGEEOAKONANSOLSILFIE
DLSEKPTIKWPIK/GRWMDLA KAGKHLQLKETFERHSRVYTF MQIIKAKDNAGNYRCEVTYK DKPDSCSFDLEVHESTGTIPNI IRSAFRRSGEGEDGAGELDPSC							KPOGGTVKVGEDITFIAKVKAE
KAGKHLQLKETFERHSRYYTE MQIIKAKDNFAGNYRCEVTYK DKFDSCSFDLEVHESTGTTPNI IRSAFKRSGEGGEDAGELDFSC LLKRREVKQGEEPQVDVWEI LKNTKPSEYEKIAFQY/GITDLX GMLKRLKRSI			l				
MQIIKAKDNPAGNYRCEVTYK							
DKFDSCSPDLEWHESTGTTPNI IRSAFKRSGGGQEDAGELDFSC LLKRREVKQGEEPQVDVWEI LKNTKPSEYEKIAFQY;GITDLX GMLKRLKRS1 GMLKRLKRS1 DDPRYMENSOQVCTLEIRKP PYDGGTYCCKAVNDLGTVEIE CKLEVKVIYQGVNTPQPVFI EQQQSLINNLOP HLIVAMPEPTKKEENEVPAPAI PPEEPSKEEKAGTTPAKDWTI. ETPPGEQAKQNANSQLSILFII KPQGGTYKVGEDITFIAKVKA DLLRKPTIKWFRGKWMDLASI AGHI-QLKETFERHSRYVTFE MQIIKAKDNFAGKYNTEVTY MGRANDRAGHCPTYK GMLKRLKRRKEK CLKRREVKQGEEPQVDVWE LKNAKPSEYEKIAFQYGITDLR GMLKRLKRRREEK CRANTAREE							
IRSAFRRSGEGGEDAGELDFSC LLKRREVKQEEEPQVDVWEI LKNTKPSEYEKIAPQVIGITUL LKNTKPSEYEKIAPQVIGITUL LKNTKPSEYEKIAPQVIGITUL LKNTKPSEYEKIAPQVIGITUL LKNTKPSEYEKIAPQVIGITUL LKNTKPSEYEKIAPQVIGITUL LKNTKPSEYEKIAPQVIGITUL LKNTKPSEYEKIAPQVIGITUL LTVRGNPEKRITVMKINKVAP DDPRYRMFSNQGVCTLEIREP PVDGGTYCCKAVDLOTTVEIE CKLUEVKVIVQCVNTPQOPVT EGQQQSLINKDF EGQQQSLINKDF ELWAMPEPTKKEEMEVPAPAI PPEPSKEKEAGITPAKDWTL ETPPGEGAKQNANSQLSILFII KPQGGTVKVGGDTITIAKVKA DLLRKPTIKWFKGKWMDLASI AGKHLQLKETFERHSRVYTE MQIIKAKDNFAGNYRCEVTYK DKPDSCSFDLEVHESTGTTPNI IRSAFRRSGEGGEDAGELDFSC LLKRREVKQGEEPQVDWWE LKNAKPSEYEKIAPQVGTDL RGMLKRLKRMRREEK GMLKRLKRMRREEK GMLKRLKRMRREEK EGY*TAKTQKLY*DIXVINTVKV** EGY*TAKTQKLY*DIXVINTVKV** EGY*TAKTQKLY*DIXVINTVTNTKVK** EGY*TAKTQKLY*DIXVTNTTXKVK** EGY*TAKTQKLY*DIXVTNTTTXKVK** EGY*TAKTQKLY*DIXVTNTTTXKVK** EGY*TAKTQKLY*DIXVTNTTTXKVK** EGY*TAKTQKLY*DIXVTNTTXKVK** EGY*TAKTQKLY*DIXVTNTTXKVK** EGY*TAKTQKLY*DIXVTNTTXKVK** EGY*TAKTQKLY*DIXVTNTTXKVK** EGY*TAKTQKLY*DIXVTNTTXKVK** EGY*TAKTQKLY*DIXVTNTTXKVK** EGY*TAKTQKLY*DIXVTNTTXKX* EGY*TAKTQKLY*DIXVTNTTXKX* EGY*TAKTQKLY*DIXVTNTTXKX* EGY*TAKTQKLY*DIXVTNTTXKX* EGY*TAKTQKLX*DIXVTNTXKX* EGY*TAKTQKLX*DIXVTNTXKX* EGY*TAKTQKLX*DIXVTNTXKX* EGY*TAKTQKLX*DIXVTNTXKX* EGY*TAKTQKLX*DIXVTNTXKX* EGY*TAKTQKLX*DIXVTNTXKX* EGY*TAKTQKLX*DIXVTN		ŀ		1			
LLKRREVKQQEEPQQDVWE LKNTKPSEYEK1AFQY/GITDLX							
LKNTKPSEYEKIAFQY/GITDL\							
Commission			i				
22216 52584 A 22344 66 358							
DDPRYRMENOGOVITLEIREP.	22216	52584	A	22344	66	358	
Pydogtycckaynolgtyee	122.0	52501	ľ.		1	1	
CKLLEVK VIYQQVNTPQQPVF EGQQQSLHNKDF	i						
EGQQQSLHNKDF							
22217 52585 A 22345 67 3515 HLIVAMPEPITKEENEVPAPAI PPEPSKEKEAGITPAKDWTL ETPPGEQAKQNANSQLSILE KPQGGTVKVGEDITFIAKVKA DLIKRPTIKWPKGWMDLAS AGHI-QLKETFERHSRVYTE MQIIKAKDNFAGWYNGEVTYK MGIKAKDNFAGWYNGEVTYK DKFDSCSFDLEVHESTGTTPNI IRSAFKRSGEQGEDAGELDFSC LLKRREVKQGEPOVDVWE LKNAKPSEYEKIAFQYGITDLR GMIKRILKRIRREEK GMIKRILKRIRREEK FQFCVSLFVYIQLASDVLPEPP HKKKPLYTLSTVKHVW TYPECNYLKTN-VTTNTKVK-EGY-TAKTQKLYPDKVVMAT KPLKTRSPKPAKYGSPHDTAT WTGSGLGLEAS*HSA 22219 52587 A 22347 1 113 22220 52588 C 22348 47 337 22221 32589 A 22349 1 2299 22221 32589 A 22349 1 2299 22222 32590 A 22350 2 441 LRHAKWFQARANGLKSCVIVI VLRDIJVTRVPTWGPLGWPL LCEKSIGTANRPMGAGEALR VLECLASGIVMPQHALRLAF GQLHKVLGMPQHARLAFAF GQLHKVLGMPQHARLAFAF GQLHKVLGMSTENDENSMYKEYP STORT							
PPEPPSKEKAGTTPAKDWTL ETPPGEQAKQNANSQLSILFII KPQGGTVKVQEDITFIAKVKA DLLRKPTIKWFKGKWMDLASI AGKH_QLKEFFERHSRVYTFE MQIIKAKDNFAGNYRCEVTYK DKFDSCSFDLEVHESTGTTPNI IRSAFKRSGEGGEDAGELDFSC LLKRREVKQQEEEPQVDWME LKNAKPSFYEKIAFQVGTDLR GMLKRLKRMRREEK PPEPPSKEKFAGNITAKVAG	22217	52585	A	22345	67	3515	HLIVAMPEPTKKEENEVPAPAP
ETPPGEEQAKQMANSQLSILFII KPQGGTVKVGEDITFIAKVKA DLLRKPTIKWFKGKWMDLASI AGKHI,QLKETFERHSRVYTFE MQIIKAKDNFAGRYKGEVTYK DKRDSCSPDLEVHESTGTTPNI IRSAFKRSGEQQEDAGELDFSC LLKRREVKQQEEPQVDVWE LKNAKPSEYEKIAFQYGITDLR GMIKRI,KRMREEK GMIKRI,KRMREEK FPGFCVSI-FVYIQIASDVLPE*PH HKKKPPTLSHWFLX*NLH.*N. NTKALKYRKI.V*LTSQKH*QN TYPECNYLKTN*VTTNTKVK* EGY**TAKTQKLYVDKVVMAT KPLKTRSPKPAKYGSPHDTAT WTGSGLGLEAS*HSA TEXT							PPEEPSKEKEAGTTPAKDWTLV
KPQGGTVKVGEDITFIAKVKA DLRRPTIKWFKGKWMDLASI		ŀ					
DLIRRPTIKWFRGKWMDLASI		ŀ					
AGKHLQLKETFERHSRVYTFE							DLLRKPTIKWFKGKWMDLASK
MQIIKAKDNFAGNYRCEVTYK							
DKPDSCSPDLEVHESTGTTPNI IRSAFKRSGGQEDAGELDFSC				İ			MOIIKAKDNFAGNYRCEVTYK
IRSAFKRSGEGQEDAGELDFSC		İ		l		1	DKFDSCSFDLEVHESTGTTPNID
LLKRREVKQQEEPQVDVWE		ŀ					IRSAFKRSGEGOEDAGELDFSG
LKMAKPSEYEKIAFOYGITDLR 22218 \$2586 A 22346 2 39 FOFCVSLFYYIQLMSDVLPE*PF							
22218 52586							LKNAKPSEYEKIAFOYGITDLR
HKKKPPTLSHWFLK*NLHL*N: NYKALKYPKLV*LTSQKH*QN							GMLKRLKRMRREEK
NTKALKYRKLV*LTSQKH*OM	22218	52586	Α	22346	2	39	FOFCVSLFVYIOLNSDVLPE*PR
TYPFCNYLKTN*VTTNTKVK* EGY*TAKTQKLYPDKVVMATI KPLKTRSPKPAKYGSPHDTAT							HKKKPPTLSHWFLK*NLHL*N*
EGY*TAKTQKLYPDKVVMAT;							NTKALKYRKLV*LTSQKH*QM
KPLKTRSPKPAKYGSPHDTAT							TYPFCNYLKTN*VTTNTKVK*T
WTGSGLGLEAS*HSA							EGY*TAKTQKLYPDKVVMATN
12220 52587 A 22347 I II 3		İ					KPLKTRSPK\PAKYGSPHDTAT
22220 52588							WTGSGLGLEAS*HSA
22221 52589 A 22349 I 2292		52587					
22222 52590 A 22350 2 441 LRHAKWFQARANGLKSCVIVI VURDLVYRVPTWGPLRGWPL LLCEKSIGTANRPMGAGEALRI VUECLASGIVMPIQHALRLAAF GQLHKVLGMDPLPSKMPKKPR		52588	С	22348	47		
VLRDLAVTR VPT WGPLRG WPL LLCEKSIGTANR PMGAGEALRI VLECLASGIVM PQHALRLAAF GQLHKYLG MDPLPSKMPKK PK	22221	52589	Α	22349	I	2292	
LLCEKSIGTANRPMGAGEALRI VLECLASGIVMP(MALRLAAF GQLHKYLGMDPLPSKMPKKP)	22222	52590	Α	22350	2	441	LRHAKWFQARANGLKSCVIVIR
VLECLASGIVMP/QHALRLAAF GQLHKVLGMDPLPSKMPKKPF					1		VLRDL\VTRVPTWGPLRGWPLE
GQLHKVLGMDPLPSKMPKKPF		1	1	1			LLCEKSIGTANRPMGAGEALRR
							VLECLASGIVMP/QHALRLAAF
		1	1	1	l		GQLHKVLGMDPLPSKMPKKPK
		1		l	l		NENPVDYTVQIPPSTTYAITPM
KRPMEEDGEEKSPSKKK							KRPMEEDGEEKSPSKKK

SEQ ID	SEQ ID NO:	Mat	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
1.01	sequence]"""	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
	ļ ·	1		sequence		, , , , , , , , , , , , , , , , , , ,
		 -				
22223	52591	A	22351	45	402	HALAALEKLFPDTPLALDANK
		1				KKRAP\VPVRGGPKFAAKPHNP
		l				GFGMGGPMHNEVPPPPNLRGR
						GRGGSIRGRGRGRGFGGANHG
		l				GYMNAGAGYGSYGYGGNSAT
						QGYK*LFHKTAYGYS
22224	52592	Α	22352	243	3113	FPDTTEEVKMRPMRIFVNDDRH
		l				VMAKHSSVYPTQEELEAVQNM
		l				VSHTERALKAVSDWIDEQEKG
		l				SSEQAESDNMDVPPEDDSKEG
		1				AGEQKTEHMTRTLRG\VMR\VG
						LVAK\CLLLKGDL\DL\ELVLLC\
					İ	KEKPTT\ALL\DKVADNLAI\QL
		1				AAVTEDKFEILQSVDDAAIVIK\
	l		l			NTKEPPLS\LTIHLTSPVVREE\M
						EKVLAGETLS\VNGPPGNVLDR
				ł		SRIAFAAFRGSLPETORWFO\AR
		l				ANGLK\SCV
22225	52593	A	22353	139	245	THIO DAY
22226	52594	A	22354	875	2019	NPNSOMPKMTRSTKOLTNKSG
		1			[· · · ·	OIDGCPGCRVVPTWCRLGHLSH
						YWAVWASILRFWEVWKYWLG
						NMGRKSSEFPILKLNG\RTMGD
		1				*VLPFHMYV\OPVV\HPOLYPHS
		1				VTELTGDYFKPWWDGOPSLOO
		ļ			ļ	VL\ERVDEWM\AKEGLL\DPNV
		1				OVOFLFTLWEDWGLKKSVLPG\
		1				OCO*LGAWPVGGFTSKOWD*S
		ł				*KKAYSF\AMGCWPKNGLLDM
		1				NKGLSLQHIGRPHSGIDDCKNI
		1				ANIMKTLAYGGFIFKOTSKPVLI
1					0	GRGQDGAGQGSLVGPPQNPPL
						PHORGKRESGHKLCCPKVVPSA
	ł					SLWGSMPLGRGLCCPLQGALA
						TWPFLEARHFCAPPSPTPQSQPS
						ISPSHCGPGLRGTPGTHRLLPW
		_				YNRLLWGHQDPRCAPSHP
22227	52595	Α	22355	507	916	RKKNEKEGTKPPRNMGICEKT
1		l				KPTFDWCT*K*RGEWNQVGKY
1	1	1		1	l	TSGYYTGELPQSSKTGQHSNSG
						NTENTTKILLEKSNPKTHNW*I
			1	l		HQG*NEGKTVKGSQREK*GYP
				l		QREAHQTNSRSLCRNPTRQKRV
						GVNIKHS
22228	52596	В	22356	72	359	-

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22229	52597	A	22357	1236	1987	GNSSPFGLPCKSSSSPPPPSLTG APARRAAAPRPASRPRPLAA GGGVPQLFATRPPPJPGPTRARRP TWR*GPRGSPETPRRREWTR REPECCRAQGSRPARPPSGS AVRSASPASSPAPAASAPLGPRS RWS*RPSSRPRNSPPPPPPGSSR SDREWGRKEASPPLTLAEAPA Y/RQDQAPPPGSPHLGFQSAAG
						PSRTASSAP/RSGIGGRGANTPA PAAIFPPSLRPPRAGPVGDLRAS GVDAAA
22230	52598	A	22358	287	2082	IXTETSEEKARRYKDRISQLNA VFQEQKKMIQAQESITLEDVAV DFTWEEWQLLGAAQKDLYRD VMLENYSNLVAVGYQASKPDA LFKIEQGEQUTTEDGIHSGAC SDIWKYDHVLERLQSESLVNRR KPCHENDAFENIVHCSKSOFILL GQNHDIFDLIRGKSLKSNLTLLVN QSKGYEIKNSVEFTCNGDSFLH ANHERLHTAIKFPASQKLISTKS QFISPKHQKTRKLEKHHVCSEC GKAFIKKSWLTDHQVMHTGER PHRCSLCEKAFSRKFMLTEHQR THTGEKPYECPECGKAFLKKSR LINHQKHTHEKEFYPYCSECGKG FIQKGNLIVHQRIHTGEKPYTCN CEGKGFIGKTCLJAHQRFHGN TPFVCSECGKSCSQKSGLIKHQ RIHTGEKPFECSECGKAFSTKQ KLIVHQKHTTGERPYCNECGKG AFAYMSCLVKHKRIHTREKQEF CSQGGKSSCERQALITHTGERP CSQGGKSSCERQALITHTGERP CSQGGKSSCERQALITHTGERP CSQGGKSSCERQALITHTGERP CSQGGKSSCERQALITHTGERP CSQGGKSSCERQALITHTGERP CSQGGKSSCERQALITHGCHA GEKLC**RGDYTSAFCPSDIIKH QRPHISQNRNCSPCGTASGQM CSLRR**QWICTGQKPCECSECC CAFROQLCLILCYRRPIGKKPD LGGKGLSKN**FIMWPKSHIFCE
22231	52599	С	22359	90	344	
22232	52600	A	22360	2	543	
22233 22234	52601 52602	A	22361 22362	373 111	490 396	GAPPGIWCLSLWACRALSPLSS AAQHRKRPSALSPATPAGSRPL RRCAPGFAATKTQRVQRRPPRR *GAAAGAGGS*RPLCGVVIHSV LHNTPE

SEQ ID		Mct	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
		_		1902	3474	Lunana and an an an an an an an an an an an an an
22235	52603	A	22363	1902	34/4	VPQRSTGSGRARSARRPLRAPD
						PCAAAPRVSPQPRPSECSGGRR
						GGSKTWAKRNAGKELTDRNW
					1	DQEDEAEEVGTFSMASEEVLK
		1				NRAIKKAKR\RNVGFESDTGGA
					l	FKGFKRFGGYPSEEERFSGFG\S
		į			i	GAGGKPLEGL\SNGNNIT\SAPP
		ŀ				FASAKAAADP\KVAFGK*LPSPS
			l			RLLVDKNVSNPKTNGDSQQPSS
						SGLASSKACVGNAYHKQLAAL
		l				DCSVRDWMVKHANTNSLCDL
		l		l		TPIFK\DYEK\YLANIETANTGN\
		l			ŀ	SGRNSESESNKVAAETQSPSLF
		l				GSTKLQQESTFLFHGNKTEDTP
		l				DKKMEVASEKKTDPSSLGATS
		l				ASFNFGKKVDSSVLGSLSSVPL
		l			1	TGFSFSPGNSSLFGKDTTQSKPV
		l				SSPFPTKPLEGOAEGDSGECKG
			1			GDEEENDEPPKVVVTEVKEED
				i		AFYSKKCKLFYKKDNEFKEKG
						GTLHLKPTANOKTOLLVRADT
		1				NLGNILLNVLIPP\NMPCTRTGK
						NNVLIVCVPNPPIDEKNA\TMP\
						VTMLIRVKTSEDADELHKILLE
22236	52604	С	22364	65	283	T INIERICA RIGEDADEETIKIEEE
	52605	A	22365	3	419	
	52606	A	22366	1	512	CGRPPWKTGQRSQPSCPPGSSG
						SGRGIPPAAWHEGEGPEAVLQ
			İ			GHRAGRGDPACRGLCCLPSQL
						GGPTSPTSAASRACGSRGAATL
			İ			VVKVKWFYHP/CRRPSWARGS
						ATARMRCTSPATRMRTTCRPSF
						TSARSWRASSMSRWPGAASAR
						TGRTSTTGGHLRPHHRAPGDG
22239	52607	Α	22367	l .	2940	MRRRKVAAIHAGPRPRSAAA
22239	32007	^	22307	l'	2940	SSEQRGRGPGAARRAGGAEAA
						ASGVTGGGGGGGAGOHAGGLG
		l				FSAGGRAPSORPLCGSMPARLF
		1				
						SKQEVDYCGLPAPPASSLRSRG
		l				HRQRIYSLNQLLQEALRTGRAR
						PGEGPGWLVTDKGGLGWGSSH
			1		1	SQAQGPDSQAAWGRAPPAHGS
		1			1	SPAFLQVLDVRPQSSRYLPPGT
						RVCAYWSQKSRCLYPGNVVRA
		1	l		l	PPPCFGRLLGVPAASSGVPSTG
						ASGDEDEDLDSVVVEFDDGD
	52608	В	22368	215	356	
22241	52609	A	22369	282	499	YLLHCLPSDPPSFTNSPDGRGRF
1 1					İ	RRRQRRRRSDPPGRGRTKSSTR
						VPGSNRFV*FHQR*GRLKEWM ANQDTN

SEQ ID NO:	SEQ ID NO: of peptide sequence		SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22242	52610	A	22370	105	619	ACQASSHSGPVWGPGERTTPG A*ASARREPSRNQHPNLWVTE Q1*IASPRTVANPLVPARTPTGP RTNKPKHLIKQGRQPRQPLSG STGGAGESPASGCAGGQPAHR VWIAPAARGCQHTPWKAPAG MQQSPRPASATRMIGPSPLSP APPAVVGVAALGSRNRCIL
22243	52611	A	22371	1	441	
22244	52612	A	22372	10	621	LRQLERGLAKGQPSTPVDRPLG PDPSAPGTLAGAALPPLEPPAPC LCQDPQEDSVEDEEPPGSLGLP PPQAGVQPAAAAVSGTTQPL AGPOVQPAAAAVSGTTQPL AGPOVQPAAAAVSGTTQPL AGPOVQPAAAAVSGTTQP AGPOGLSAPEQQEDEDSLEEDS PRALGSGQPABSAELDE QDILAPQTVQCPAQAPAGGSEE TLRQLERGLAKGQPSTPVDRP LGPDPSAPGTLAGAALPPLEPP APCLCQDPQEDSVEDEEPPGSL GLPPPQAGVQPAAAAVSGTTQP LGTGPRVSLSPHSPLLSPKVAS MDAKDLALQILPPCQVPPPSGP QSPAGPQGLASPEQGEDSLEEDS EDSPRALGSGQHSDSHGESSAE LDEQDILAPQTVQCPAQAPAGG SEETIAKA

2890

SEQ ID	SEQ ID NO:	Mct	SEQ ID NO:		Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
22245	52613	A	22373	I	2271	MPGELLAPSCCCRGGPTRDRTD
22243	52015	ľ^	22313	l'	1271	LSCDAAAATTILGGDRREPCAL
		1				TPGPSHLALTFLPSKPGARPOPE
		1				GASWDAGPG\LSTEAPLPATLE
		l				
						PRIVMGEETCQALLSPRAARTA LRDOEGWGL/SPOGSMVDEREL
		i		İ		HPAGTPEPPSSESSLSADSSSSW
						GOEGHFFDLDFLANDPMIPAAL
		ŀ				
						LPFQGSLIFQVEAVEVTPLSPEE
		1		ŀ		EEEEAVADPDPDSASYAEADDE
		ŀ		l		RLYSGEPHAQATLLQDSVQKTE
						EESGGLRYDTASAPTRHRSLVS
i						PKACSCSHDCAP\AG*RGPHLTP
						GLRYDTASAPTRHRSLISPKAC
					ŀ	GCSHDCVPAG*RGPHLTPGLRY
		1	İ			DTASAPTRHRSLVSPKACSCSH
1		1				ACVPAG*RGPHLTPGLRYDSTS
-		l	1			ASARHRPHLRSRASGCGHPSNL
1		1			1	AGRSRLCPRDRACGHHGSAGS/
		1			ŀ	SAWTGSMSGSA\RHR*WG*A*L
		ı				TPKGDPGG*EPAGRRPEG\TGT
ıl .						GTWTQPQGGLHGCQRPGLADL
	1					AALPSASSLWAPEPSWPS/SALS
		ł				PRAARG*GQPGGRLASGPGLGP
		l				AFG*PRGVISRAGRAGHLGSSD
		1			1	RAVSSPGAQSREEGPSRRQ*GD
		1				HRQSQAESQ*EEGPKGNVKAG
		l				LAADSGSHQDHHPEVQEHPLC
1		l				HRQA*CLQGDPASAHLCG\FWR
1						GQ\T*GP\CPASAQSRS*EV*GAL
		l				R\DLSLGP*VST\QGPG*A*VQG
		1	l			KGKG\GGGKGGPGGAGTA*HL
22246	52614	Α	22374	2	211	
22247	52615	Α	22375	43	241	
22248	52616	A	22376	184	332	
22249	52617	Α	22377	1292	1923	KAGARGNQEGTMASSSG\TQK
		1				VLTIPRGCYQ*K*SKETLP*CSG
		i				WPNDAR\EAVVNC\CTEFI\HLIS
						SEANEICNKSEKKTISPEHVIQA
		l				LESLGFGSYISEVKEVLOECKT
1		ı				VALK\RRKASSRFGKPLGIPEEE\
1	1		l		1	LFGDQANKELFGKSLDQQQAE\
				1		LAQQ\EW\LQMQQAA\HQA\QL
1	1		l	1	1	AAASAKCI*SRRGSFSGMEEDG
			ĺ	1		GWISEIPPAEFLFLL
22250	52618	В	22378	1	1701	
22251	52619	A	22379	1	147	
22231	1520.5	٠.	1223.3	l'	1	L

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence	1	09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
22252	52620	A	22380	1	484	IRHEGRGQRGKMELVQ\VLKRG
		l	İ			LQQITGHGG/LFRGYLRVFF\RT
		l				NDAKVGTLVGEDKYGNKYYE
		ı				DNKQFFGRHRWVVYTTEMNG
		ĺ				KNTFWDVDGSMVPPEWHRWL
		ı				HSMTDDPPTTKPLTA\RKFHLG
		l				RNH*ISTWTGAPQEQYVPYSTT
						RK\KIQEWIPPSTPYK
22253	52621	Α	22381	3	258	DMAAQIAEGMAFIEERNYIHRD
		l				LRAANILVSDTLSCKIADFGLA
		l				RLIED\FTIKSDVWSFGILLTEIV
						THGRIPYPGMTNPEVIQN
22254	52622	Α	22382	1	738	
22255	52623	Α	22383	233	1898	GAGPTGYLRRLPGWAGTMGC
		1				GCSSHPEDDWMENIDVCENCH
		1				YPIVPLDGKGTLLIRNGSEVRDP
						LVTYEGSNPPASPLQDNLVI\AL
					!	HSYEPSHDGDLGFEKGEQLRIL
						EQSV\EWWKAQSLTTGQEGFIP
		l				FNFVAKANSLEPEPWFFKNLSR
i						KDAERQLLAPGNTHGSFLIRES
		1				ESTAGSFSLSVRDFDQNQGEVV
		l				KHYKIRNLDNGGFYISPRITFPG
		l			1	LHELASAITPIASDGLCTR\LSRP
						CQTQKPQKPQKPWWEDEWEV
		l				PRETLKL VERLGAGQFG\RCGW
		l				GTTTGTTKVAVKSLKQGSMSA
		1			İ	GRLP\AEANLMKQLQ\HQRL\VR
		l			1	LYAVVT\QEPIYIITEYMENGSL
	ļ	l				VDFLKTPSGIKLTINKLLDMAA
		l			1	QIAEGMAFIEERNYIHRDLRAA
						NILVSDTLSCKIADFGLARLIED
		l				NEYTAREGAKFPIKWTAPEAI*S
	l	l				RGNSPPRSDVWSF\GDLLPEIFT\
1		l				HGRIP/YPQGIPNPELIQKLERGY
		1				RMVRP\SNCPEKLYQL\MRLCW
	1	l			1	KERPED\RPTFDYLRSVLEDFFK
		l				RHRRASNQPQALREPLRKPLCF
22256	52624	Α	22384	3	203	
22257	52625	Α	22385	2	467	
22258	52626	Α	22386	1	468	
22259	52627	A	22387	1	645	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nuclcotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide		in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
22260	52628	A	22388	821	2637	AAASAWRATHSTTAAGRRTAL
						FRSPEPGNTRDTRRRRRATAPD
ŀ		l				CCRPATSPRALDWTSLHTRRHP
1						VQNYLQWSYWQVLVSRWIAF
i						AGLAMADYLISGGTGYVPEDG
						LTAQQLFASADDLTYNDFLILP
l						GFIDFIADEVDLTSALTRKITLK
						TPLISSPMDTVTEADMAIAMAL
ł						MGGIGFIHHNCTPEFQANEVRK
						VKNFEQGFITDPVVLSPSHTVG\
				1		DVLEGKMRHGFSG\IPITETGTM
				1		GSKLVGIVTSRDIDFLAEKDHT
i i				1		TLLSEVMTPRIELVVAPAGVTL
İ					l l	KEANEILQRSKKGKLPIVNDCD
					ļ	ELVAHARTDLKKSRDYPLASK
						DSQPQLLCGAAVDTREEDKYR
1		l				LDLLTQAGVDVIVLDSSQGNSV
		Į.			i	YQY\ARVLYFKQKYPHLQV\LG
		1		ŀ		GNVVTAAQAKNLIDAGVDGLR
		l				VGMGCGSICITQ\EVMACGRPQ
		l				GTCCVTR*AEYARRFGVPIIAD
		1				GGIQTVGHVVKALALGASTVM
		i				MGSLLAATTEAPGEYFFSDGVR
		l				LKKYRGMGSLDAMEKSSSSQK
		l				RYFSEGDKVKIAQGVSGSIQDK
		l				GSIQKFVPYLIAGIQHGCQDIGA
	ŀ	l				RSLSVLRSMMYSGELKFEKRT
	ĺ	l				MSPQIEGGVHGLHSYEKRLY
22261	52629	Α	22389	2	332	
22262	52630	Α	22390	3	608	MTAVHAGHLNLKWDPKSLEIR
		1				TLAAERLVTQVTTLVNTNSKGP
		l				SDKKRGHSKKVHVLAASVEQA
		1				AENFLEKEDKIVKESQF\L*E*LL
İ		i				AAVEYVRKQ/GKECLRPSLEEH
	ł	1				LEGIISGAALMGDSSCKHDDHR
		ĺ			1	ERIAAECNTVLQ\ACRTCF/SEY
	1				1	MGNAGCKERSNSLNSAIDKMT
		1			1	KKTRDLRRQLHKAVMDHVSDS
	1	l				FLETNVPLL
22263	52631	A	22391	2	2864	

2893

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \-possible nucleotide insertion)
22264	52632	Α	22392	14	2897	PDWRETKQRPSASGLWNLALA
		1				QLAAEMTAVHAGHLNLKWDP
		1		İ		KSLEIRT\LAVERLLEPLVTQVT
i						TLVNTNSKGPSDKKRGHSKKV
		l				HVLAASVEQAAENFLEKEDKIV
l	l	l				KESQF\L*E*LLAAVEDVRKQG
		1				DLMKAAARRRSHDDPCSSVEQ
		ı				GNMVQAA*TLLSAVTCLLILA\
		l	ŀ			DMGNVYKLLVQLKVVEDGILK
						LRNAGNEQDLGIQYKALKPEV
		1				DKLNIMAAKRQQELKDVGHRD
		L_				QMAAARGILQKNVPILYTAS
22265	52633	Α	22393	1	1584	
22266	52634	Α	22394	I	3519	
22267	52635	Α	22395	3	673	
22268	52636	Α	22396	I	1574	DVPRDLEVVAATPTSLLISWDA
		l				PAVTVRYYRITYGETGGNSPVQ
		1				EFTVPGSKSTATISGLKPGVDYT
	1	l		'		ITVYAVTGRGDSPASSKPISINY
	l	l				RTEIDKPSQMQVTDVQDNSISV
		l			1	KWLPSSSPVTGYRVTTTPKNGP
l		l				GPTKTKTAGPDQTEMTIEGLQP
		l			ŀ	TVEYVVSVYAQ\NPSGESQPLV
		l				Q\VAVPTIPAPTDLKFTQVTPTS
		l				LSAQWALPNVQLTGYRVRVTP
		l				KERTGPMKEINLAPDSSSVVVS
		l				GLMVATKYEVSVYALKDTLTS
	l	1			l	GPAQGVVTTLENVSPPRRARVT
		l			İ	DATETTITISWRTKTETITGFQV
		l			1	DAVPANGQT\PIQRTIKPDVRSY
	1	l				TITGLQPGTDYKIYLYTLNDNA
		l				RSSPVVIDASTAIDAPSNLRFLA
	1	l				TTPNSLLVSWQPPRARITGYIIK
	1	ı				YEKPGSPPREVVPRPRPGVTEA
	1	I			1	TITGLEPGTEYTIYVIALKNNQK
	1	I			1	SEPLIGRKKTVQKTPFVTHPGY
	1	ı				DTGNGIQLPGTSGQQPSVGQQ
	1	I				MIFEEHGFRRTTPPTTATPIRHR
		L				PRPYPPNVGQEALS

SEQ ID	SEQ ID NO: of peptide	Met	SEQ ID NO: in USSN	Nucleotide location of first	Nucleotide location of last	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide
NO:	sequence	noa	09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
22269	52637	Α	22397	3	2382	QTEMTIEGLQPTVEYVVSVYAQ
						NPSGESQPLVQTAVTNIDRPKG
						LAFTDVDVDSIKIAWESPQGQV
					İ	SRYRVTYSSPEDGIHELFPAPDG
						EEDTAELQGLRPGSEYTVSVVA
						LHDDMESQPLIGTQSTAIPAPTD
		i			i	LKFTQVTPTSLSAQWTPPNVQL
					l	TGYRVRVTPKEKTGPMKEINLA
						PDSSSVVVSGLMVATKYEVSV
						YALKDTLTSRPAQGVVTTLEN
						VSPPRRARVTDATETTITISWRT
	1				1	KTETITGFQVDAVPANGQTPIQ
					1	RTIKPDVRSYTITGLQPGTDYKI
						YLYTLNDNARSSPVVIDASTAI
		1				DAPSNLRFLATTPNSLLVSWQP
		l				PRARITGYIIKYEKPGSPPREVV PRPRPGVTEATITGLEPGTEYTI
					1	
		1			1	YVIALKNNQKSEPLIGRKKTDE LPQLVTLPHPNLHGPEILDVPST
						VOKTPFVTHPGYDTGNGIOLPG
	1				1	TSGQQPSVGQQMIFEEHGFRRT
ľ	l					TPPTTATPIRHRPRPYPPNVGEE
						QIGHIPREDVDYHLYPHGPGLN
	1					PNASTGQEALSQTTISWAPFQD
ĺ					1	TSEYIISCHPVGTDEEPLOFRVP
	İ					GTS\TSATLTGLTRGATYNIIVE
						ALKDQQRHKVREEVVTVGNSV
	1					NEGLNOPTDDSCFDPYTVSHYA
İ		1				VGDEWERMSESGFKLLCOCLG
				1		FGSGHFRCDSSRWCHDNGVNY
		1		1	l	KIGEKWDRQGENGQMMSCTCL
1				1		GNGKGEFKCDPHEATCYDDGK
22270	52638	Α	22398	48	7500	GATMACCAAQGEERVTPCASG
						KRGPAATTSLVLWIPSVPPPVPF
	1					PTLWPPPSWRRQPPGGIRRDFS
				1		RRLRREANLVATCLPVRASLPH
						RLNMLKGPGPGLLLLAVLCLG
1				1	1	TAVPSTGASKSKRQAQQMVQP
				İ		QSPVAVSQSKPGCYDNGKHYQ
}						INQQWERTYLGNVLVCTCYGG
1						SRGFNCESKPEAEETCFDKYTG
						NTYRVGDTYERPKDSMIWDCT
				ŀ		CIGAGRGRISCTIANRCHEGGQS
						YKIGDTWRRPHETGGYM
22271	52639	Α	22399	1	403	NSTNKRRGFCFITFKE\EMEKKY
			l			HNVGLSKCEIKVAMSKEQYQQ
						QQQWGSRGGFAGRARGRGGG
			l		ŀ	PSQNWNQGYSNYWNQGYGNY
	1		İ		1	GYNSQGYGGYGGYDYTGYNN
			l			YYGYGDYSNQQSGYGKVSRRG
	1		ı			GHQNSYKPY

	""Stop codon, /-possible nucleotide detein, /-possible nucleotide insertion) LESMTIFPYSDDKRAQYIFIQKD LLKKPVRHYYIMTLSHWAFNT RLALQYWGGHKTQIDSEA*Q LRNKTMKANFF MSEEQFGGDGAAAAATAAVG GSAGEQEGAMVAATQGAAAA AGSGAGEGGGMYAATQGAAAA
22272 52640 C 22400 36 214	LLKKPVRHYYIMTLSHWAFNT RLALQYWGKGHKTQIDSEA*Q LRNKTMKANFF MSEEQFGGDGAAAAATAAVG GSAGEQEGAMVAATQGAAAA AGSGAGTGGGTASGGTEGGSA
22273 52641 A 22401 3 182 22274 52642 A 22402 223 452 22275 52643 A 22403 I 1037	LLKKPVRHYYIMTLSHWAFNT RLALQYWGKGHKTQIDSEA*Q LRNKTMKANFF MSEEQFGGDGAAAAATAAVG GSAGEQEGAMVAATQGAAAA AGSGAGTGGGTASGGTEGGSA
22274 52642 A 22402 223 452 22275 52643 A 22403 I 1037	LLKKPVRHYYIMTLSHWAFNT RLALQYWGKGHKTQIDSEA*Q LRNKTMKANFF MSEEQFGGDGAAAAATAAVG GSAGEQEGAMVAATQGAAAA AGSGAGTGGGTASGGTEGGSA
22275 52643 A 22403 I 1037	LLKKPVRHYYIMTLSHWAFNT RLALQYWGKGHKTQIDSEA*Q LRNKTMKANFF MSEEQFGGDGAAAAATAAVG GSAGEQEGAMVAATQGAAAA AGSGAGTGGGTASGGTEGGSA
22275 52643 A 22403 I 1037	RLALQYWGKGHKTQIDSEA*Q LRNKTMKANFF MSEEQFGGDGAAAAATAAVG GSAGEQEGAMVAATQGAAAA AGSGAGTGGGTASGGTEGGSA
22275 52643 A 22403 I 1037	LRNKTMKANFF MSEEQFGGDGAAAAATAAVG GSAGEQEGAMVAATQGAAAA AGSGAGTGGGTASGGTEGGSA
22275 52643 A 22403 I 1037	MSEEQFGGDGAAAAATAAVG GSAGEQEGAMVAATQGAAAA AGSGAGTGGGTASGGTEGGSA
	GSAGEQEGAMVAATQGAAAA AGSGAGTGGGTASGGTEGGSA
	AGSGAGTGGGTASGGTEGGSA
	ESECAKIDASKNEEDEGUSNEE
	FOR OUT INTO VOICE FEBRUARY
	PRHSEAATAQREEWKMFIGGLS
	WDTTKKDLKDYFSKFGEVVDC
	TLKLDPITGRSRGFGFVLFKESE
	SVDKVMDQKEHKLNGKVIDPK
	RAKAMKTKEPVKKIFVGGLSP
	DTPEEKIREYFGGFGEVESIELP
	MDNKTNKRRGFCFITFKEEEPV
	KKIMEKKYHNVGLSKCELK\VA
	MSKEQYQQ\Q\QQWDSRGGCA
	GRA\RGRGGDQAE\GYGKGIQA
	RWAIKNSYKPYLNYSICQPYPP
	TAGTSLQALCRADFRFSQARSM
22276 52644 A 22404 299 1508	HYVGGSSSGGDGAAARAT/AR
	AVGGSAGEQ\FGA\MVAATHG
1 1 1 .1 1	ARGGVWEADAATGGGTASGG
	T\EGGSAE\SEG\AKIYASKNEED
	EGHSNSSPRHSEAATAQRGRM\
1	KMVIGGLSWDT\TKKDLKDYFS
1 1 1	KFGEVVDCTLKLDPITG\QSRGF
	GFV\LFKESESV\DKVMDQKEH
	K\LNG\KVNDPKRAKAM\KTKE
	PVKKIFVGGLSPDTPE\EKIREYF
	GGFGE\VESIELPMD\NKTN*RG
	RGF\CF\ITFKEEEPVKKI\MEKK
	YHNVGLSKCEIKVVLLNEQYQ
	QQQQW*SIGGFAGIALVIGGGP
	SQNWNQGYSNYWNQGYGNYG
	YSS\QGYG\GYGGYDYTGY\NN
	Y\YGYGDYSNQQSGYGKVS\RR
	GGHQ\NSYKPHTKFIPICNLFPN
	RWLKQYFPNLKIQFERGSCHLL
	EESEPERKRARTDEVL\PEEAAP
	RRKMRTTRTTCPVSRY\AAP\QL
	LLQKLLQRRRKGSCSRG
22278 52646 B 22406 1 1356	
22279 52647 C 22407 135 260	
22280 52648 A 22408 1 1740	
22281 52649 B 22409 80 371	

SEQ ID	SEQ ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hod	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide sequence	of peptide sequence	deletion, \=possible nucleotide insertion)
				sequence		
22282	52650	A	22410	257	1200	ISWCCMEQKKRLP\FSKREG\PY
						EFIICPSEDSSPLLRCAFCIGGMS
ŀ						VKEQMETIRHPLQTTRGPGPGP
						LFTDGPDPIPEAFLHGLLSIREM
						VSTEKVKPVGQESEPRVKPLEL
						DDSASGGVHMMVATPGRLMD
Ì						LLQKKMVSLNICRYLALDEAD
						RMIDMGFEGDIRTIFSYFKHTSA
						AAIGLQLALDGGTGSGQKGKC
						EEFPSSMSAVSTGLEASACCLS
				ĺ		VTMDPLETLSRMASSTSSMSSL
						ARAWLSPEPGDSPGMVGGLPR
İ					1	ELPGMAPLECGEFQRPESLCAD
					ŀ	RNELGSQSPEFPGQEEEDEDED
						DEEEDEDE
22283	52651	Α	22411	107	2069	GGVSPWRACVQQRMEESEPER
						KRARTDEV\LPEEAAPRRKMRT
ŀ						TRTTCPMCRYGSAGSLLLQKLL
						QR\RRKGAAEEEQQDSGSEPRG
						DEDDIPLGPQ\SNVSLLDQHQHL
		l				\KEKAESAAKESCQGRKQLEGK
				•		KEKILGRIVCRRAE\LDVK*KAD
						WLKGITVLIDPIKTQLGLPPR/Y
						MFLSMSEERHERVRKKYHILVE
				į		GDGIPPPIKSFKEMKFPAAILRG
			i			LKKKGIHHPTPIQIQGIPTILSCR
1						DMIGIAFTGSGKTLVFTLPVIMF
				1		CLEQEKRLPFSKREGPYGLIICP
						SRELARQTHGILEYYCRLLQED SSPLLRC\ALCIGGMSVK\EQ\ME
ł						TIROGVHMMVATPG/RALMDL
						LOKKMVSLDICRYLALDEADR
ŀ					ł	MIDMGFEGDIRTIFSYFKGORO
						TLLFSATMPKKIQNFA\KSALVK
						PVTINVGRAGAASLDVIQEVEY
						VKEEAKMVYLLECLQKTPPPV
						LIFAEKKADVDAIHEYLLLKGV
						EAVAIHGGKDQEERTKA\IEAFR
						EGKKDVLVAT\DVASKGLVFPA
		1				IQHVINYDMPEEIENYVHRIGRT
				l		GR\SGNTGIATTFINKACDESFLI
				l		D\LKALLVRKPKQKVPPVL\QV
		l		l		L\HCGGWSPMLDIGRSSRGCAF
					İ	CGG\LGH\RITDCPKL\EA\MOTK
		1		1		QVSNIGRKDYLAHSSMDF
22284	52652	Α	22412	435	1428	
	1. 3002			<u> </u>		

NO:	SEO ID	ISEO ID NO:	Met	SEQ ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
22285 \$2653 A 22413 3 3597 HKMAPYSPLYTRLQKALK YHYASVLCQRAKMAMSI EYHYDLLEKNINIVCKRI LTLLEKIVYGHLDPASQ GK:SV/LW.WPDHVAML GATTSVFFYSHRARRYLS RTDIANIADEFQDHLVPD YDQLIEINLSELKPHINOP QAHPVAEVGKVAEKEGW RVGLT							
22285 \$2653 A 22413 3 397							deletion, \=possible nucleotide insertion)
YHVASVLCQRAKMAMS YHVASVLCQRAKMAMS YHYASVLCQRAKMAMS EYHYDLEKNINVCKRI LTLLEKIVVGHLDDPASQ GK/SY/LW.WPDPWAML GATTSVPFYNHRMRRYL: RTDIANLADEFQDHLVPD YQQLIEINLSELRPHINOP QAHPVAEVGKVAEKEGW RVGLT			l		sequence	1	,
YHVASVLCQRAKMAMS YHVASVLCQRAKMAMS YHYASVLCQRAKMAMS EYHYDLEKNINVCKRI LTLLEKIVVGHLDDPASQ GK/SY/LW.WPDPWAML GATTSVPFYNHRMRRYL: RTDIANLADEFQDHLVPD YQQLIEINLSELRPHINOP QAHPVAEVGKVAEKEGW RVGLT			L				
EYHYDLLEKNINIVCKR	22285	52653	Α	22413	3	597	HKMAPYSPLVTRLQKALGVRQ
LTLLEKIVYGHLDDPASQ GK/S/YLWLWPDHVAMLG			1				YHVASVLCQRAKMAMSHFEPN
GK/SY/LWLWPDHVAML GATTSVFPYNHRMRRYLE RTDIANLADEFQDHLVPD YDQLIEINLSELRPHINOP QAHPVAEVGKVAEKEGW RVGLT			l				EYIHYDLLEKNINIVCKRLNWP
GATTSVPPYNHRMRRYL; RTDIANLADEFQDHLVPP			l				LTLLEKIVYGHLDDPASQEIEO
GATTSVPPYNHRMRRYL; RTDIANLADEFQDHLVPP	l		l				GK/S/YLWLWPDHVAMLQFISKI
22286 \$2654 A \$22414 29 \$12	l		ı				GATTSVFPYNHRMRRYLSK/TG
22286 \$2654 A \$22414 29 \$12	l		l				RTDIANLADEFQDHLVPDPGCH
QAHPVAEVGKVAEKEGW RVGLT	1		ı				
RVGLT	l		l				
22286 \$2654			1				
1 1 2438 22288 32656 B 22416 1 1 1 1 2438	22286	52654	Α_	22414	29	512	RVGE1
22288 \$2656 B 22416 271 719 22289 \$2657 A 22417 1 2438 SVIIKMAPYSLLVTRL*KA RQYHVGSVLQQRARIVAN EPNEVIHYDLLEKSINIVR RPLTLSEKIVORHLDDPA: RGKSVLR.RPDRV AMQD QMAMLOFISGI.SLV AVI CCHLIEAQVGGEE\DL\RR NQEVYNFLATAGAKYGV KPGSGIIHQIILENYCVPW GPPFHTPRGGGLGGNCIC WPNAWEWNGLGIPWELK VIGWKLTOSLSGWPSPKD VAGILTVKGGTGATICHMGAEIG SVFPYNHRMKKYLSKTGI NLADEFKOHL VPOPPCCHF EINLSELKPHINQFTPDL. AEVGKVAEKEGWPLDIR: GSCTNFKLWKIWGRSAA' ALAHGLKCKSQPTITPGI RATTERDOYAQLIRDLG ANACGPCIGGWBKDIKK NTIVYSVNRNFTGRNDAH HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSTRLC ADPVPRGGEFPIGROTY							
22289 \$2657 A 22417 I 2438 SVIKMAPYSLLVTRLYKA RQYHVGSVLQRARVIA EPNEVIHYDLLEKSINIVR RPLTLSEKIVYGHLDDPA: RGKSYLLR.RPDRVAMOD QMAMLQFISSGLSKVAVI CDHLIEAQVGGEEDLURR NQEVYNFLATAGAKYGV KPGSGIHQIILENNCVPW GPPPFTPNGGGLGGNGI WPNAWEWNGLGIPWELK VIGVKLTGSLSGWESPKD VAGILTVKGGTGAIVEVQ DSISCTGMATICNIMGABE SVFPYNHRMKKYLSKTGI NLADEFKDHLVPDPGCH* EINLSELKPHINGPFTPDL AEVGKVAEKEGWPLDIRI GSCTAFKLWKIWGRSAA: ALAHGLKCKSQFVITTPGI RATFERDGYAQILRDIG ANACGFGIGQWDRKDIKK NTIVTSVNRNFTGRINDAN HAFVTSSPEIVTALAIAGTL PETDYLTGHGWARSFRL AD*VPPRGGEP*PRGROTY							
RQYHVGSVLCQRARWAN EPNEYIHYDLLEKSINIVR RPLTLSEKIVYGHLDDFA: RGKSYLRLRPDRVAMQD QMAMLQFISSGLSVAVI COHLIEAQVGGEEDLURR NQEVYNFLATAGAKYGV KPGSGIIIQIILENYCYPW GPDFHTFNGGGLGGNCIC WPNAWEWNGLGIPWELK VIGVKLTGSLSGWESPKD VAGILTVKGGTGAIVEVQ DSISCTGMATICNMGAEIR SVFPYNIRMKKYLSKTGI NLADEFKOHLVPDFCCH EINLSELKPHNGFTFDLL AEVGKVAEKEGWPLDIRI GSCTNFKLWKIWGRSAA: ALAHGLKCKSQNTTIPGI RATTERDDYAQILRDLG ANACGPCIGGWDRKDIRIK NTIVYSYNRNFTGRNDAH HAFVTSSPIVTALAIAGTL PETDYLTGHGWARSFILL APVPREGEFPITGRATGAT ANPVPREGEFPITGROTYY			-				SVHKMAPYSLLVTRL*KALGV
EPNEVHYDLLEKSINIVR RRLTLSEKIVYGHLDDPA RGKSYLRLRPDRVAMOD QMAMLQFISSGLSKVAVI COPHLEAQVGGEDLURR NQEVYNFLATAGAKYGV KPGSGIHIQIILENYCVPW GPPFHTPNGGGLGGNCIG WPNAWEWNGLGIPWELL VIGVKLTGSLSGWPSPKD VAGILTVKGGTGAIVEVQ DSISCTOMATICNMGABEL SVFPYNHRMKKYLSKTG NLADEROHLVPDPGCHF EINLSELKPHINOPFTPDL AEVGKVAEKEGWPLDIR GSCTNFKLWKIWGRSAA ALAHGLKCKSOPTITPGI RATFERDGYAQILRDLG ANACGPCIGGWDRKDIKN NTIVTSYNRNFTGRNDAN HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFRL AD*VPPRGGEPPRGRDTY	22207	32037	ľ	22417	ľ		
RPLTLSEKIVYGHLODPA- RGKSYLRLRPDRVAMQD QMAMLQFISSGLSKVAVI COHLIEAQVGGEEDLURR NQEVYNFLATAGAKYGV KPGSGIHQIILENYCVPW GPDFHTPNGGGLGGRCIC WPNAWEWNGLGIPWELR VIGVELTGSLSGWESPED VAGILTVKGGTGAIVEVQ DSISCTGMATICNMGABEL SVFPYNHRMKKYLSKTGI NLADEFKDHLVPDPGGH EINLSELRPHINGPFTPDL AEVGKVAEKEGWPLDIRI GSCTAFKLWKIWGRSAA- ALAHGLKCKSQFVITPGI RATTERDDYAQILRDLG ANACGFCIGQWDRKDIRI NTIVYSVRNFTGRINDAY HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFRL AD*VPPRGGEPPRGRDTY			l				
RGKSYLR.RPDRVAMOD QMAMLQFISSGLSKVAVI CDHILEA, OVGGEDLU.RR NQEVYNFLATAGAKYGW KPGSGIHQIILENYVCYPW GPDFHTPNGGGLGGICI.GE WPNAWEWNGL.GIPWELL VIGVKLTGSLSGWSPPKD VAGILTVK.GGTGAIVEVQ DSISCTGMATICNNGASEL SVPPYNHRMKKYLSKTGI NLADEFKOHL.VPDPGCIFI EINLSELKPHINGPFTPDL AEVGKVAEKEGWPLDIRI GSCTNFKLWKIWGRSAA ALAHGLK.CKSQFNTTPGI RATFERDGYAQILRDLG ANACGFCIGQWDRKDIKI NTIVTSYNRNFTGRNDAN HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFRL AD*VPRKGEFPRGROTY			l				
QMAMLOFISGLSKVAV' CDHLIEAQVGGEEIDLIRR NQEVYNFLATAGAKYGV KPGSGIIHQIILENYCVPW GPDPHTPNGGGLGGNGI WPNAWEWNGLGIPWELK VIGVKLTGSLSGWPSPED VAGILTVKGGTGAIVEVQ DSISCTGMATICNIMGAEI SVFPYNHRMKKYLSKTGI NLADEFKDHLVPDPGCHY EINLSELKPHINGPTIPDL AEVGKVAEKEGWPLDIRI GSCTNFKLWKIWGRSAA ALAHGLKCKSOPITIPGI RATTERDGYAQILENDIG KNACGFIGGWDRKDIRK NTIVTSYNRNFTGRINDAN HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFRL AD*VPPRGGE*PRGROTY	ì		l				
COHLIEAQVGGEEDLURR NQEVYNFLATAGAKYGV KPGSGIIIQIILENYCVPW GPDFHTFNGGGLGGNCIC WPNAWEWNGLGIPWELK VIGVELTGSLSGWESPED VAGILTVEGGTGAIVEVQ DSISCTGMATICNMGAEIR SVFPYNHRMKKYLSKTGI NLADEFROHLVPPPCCH EINLSELKPHINGFTFDEL AEVGKVAEREGWPLDIRI GSCTNFKLWKIWGRSAA' ALAHGLKCKSQNTTIFFIG RATTERDDYAQILENLIG ANACGPGGOWBKDIRIK NTIVYSVNRNFTGRNDAH HAFVTSSPEIVTALAIAGTL PETDYLTGHGWARSFILL APVPREGEFPRGROTYC APVPREGEFPRGROTYC			ı				
NQEVYNFLATAGAKYGY KPGSGIHQILENYCVPW GPDFHTPNGGGLGGNCIC WPNAWEWNGLGIPWELL VIGVKLTGSLSGWSPPKD VAGILTVKGGTGAIVEYQ DSISCTOMATICNMGAEIE SVFPYNHRMKKYLSKTGI NLADEFKOHLVPDPGCIFI EINLSELKPHINGPFPDL AEVGKVAEKEGWPLDIRI GSCTNFKLWKIWGRSAA ALAHGLKCKSQFNTTPGI RATFERDGYAQILRDLGG ANACGFCIGGWDRKDIKI NTIVTSYNRNFTGRNDAN HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFRL AD*VPPKGEF*PRGDTY		i	l				
KPGSGIHQIILENYCVPW GPDFHTPNGGGLGGRCIC WPNAWEWNGLGIPWELK VIGVELTGSLSGWESPKD VAGILTVKGGTGAIVEVQ DSISCTGMATICNMGAEIE SVFPYNHRMKKYLSKTGI NLADEFKDHLVPDPGGHP EINLSELRPHINGPFTPDL AEVGKVAEKEGWPLDIRI GSCTAFKLWKIWGRSAA- ALAHGLKCKSQFVITPGI RATTERDDYAQILRDLG ANACGFCIGQWDRKDIKI NTIVTSVRNFTFGRNDAY HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFRL AD*VPPRGGE*PRGRDTY			l				
GPOPHTPNGGGLGGNCIL WPNAWEWNGLGIPWELK VIGVKLTGSLSGWPSPKD VAGILTVKGGTGAIVEVQ DSISCTGMATICNMGAEIG SVPPYNHRMKKYLSKTGI NLADEFKDHLVPDPGCHF EINLSELKPHINOFTPDL. AEVGKVAEKEGWPLDIRI GSCTNFKLWKIWGRSAA' ALAHGUKCKSQFNTTPGI RATFERDGYAQLIR.DIG ANACGPCIGQWDRKDIK NTIVTSYNRNFTGRNDAN HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFRLC AD*VPREGEFPRGRDTY			l			1	
WPNAWEWNGLGIPWELK VIGVKLTGSLSGWPSPG VAGILTVKGGTGAIVEYQ DSISCTOMATICNMGARIE SVFPYNHRMKKYLSKTGI NLADEFKDHLVPDPGCHY EINLSELKPHINOFFTPDLL AEVGKVAEKEGWPLDIRI GSCTNFKLWKIWGRSAA ALAHGLKCKSOPITTFGI RATTERDGYAQILRIDLGG ANACGPCIGGWDRKDIKK NTIVTSVRNFTFGRNDAY HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFRL AD*VPPKGEF*PRGRDTY			l				
VIGVELTOSLSGWEPSPKD VAGILTVKGGTGAIVEVQ DSISCTGMATICNMGAEIG SVFPYNHRMKKYLSKTG INLADEFROHL VPPPGCHF EINLSELKPHINGPFTPDL AEVGKVAEREGWPLDIR: GSCTNFKLWKIWGRSAA' ALAHGLKCKSQFITTFGI RATTERBOTYAQLIRDLG ANACGPCIGOWDRKDIR: NTIVYSYNRNFTGRINDAY HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSTRIC AD*VPPRGEFFPRGROTYG AD*VPPRGEFFPRGROTYG			l			1	
VAGILTVKGGTGAIVEVY DSISCTGMATICNMGAEIE SVFPYNHRMKKYLSKTGI NLADEFKDHLVPDPGCHI EINLSELKPHINGPFTPDL AEVGKVAEKEGWPLDIRI GSCTNFKLWKIWGRSAA ALAHGLKCKSQFNTTPGI RATFERDGYAQILRDLGG ANACGFCIGGWDKDIRIK NTIVTSYNRNFTGRNDAN HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFRL AD*VFPKGEF*PRGDTYG		1	l				
DSISCTOMATICNMGARE SVFPYNHRMKKYLSKTGI NLADEFKDHLVPDPGCHY EINLSELKPHINGPFTPDLL AEVGKVAREKGWPLDIRI GSCTNFKLWKIWGRSAA ALAHGILKCKSQFVITTPGI RATTERDGYAQILRDLGG ANACGPCIGQWDRKDIKI NTIVTSVRNFTFGRNDAH HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFRL AD*VFPKGEF*PRGRDTY			l				
SVFPYNHMKKYLSKTGI NLADEFKDHLVPDFCGIFI EINLSELRFHINGFTPDL. AEVGKVAEKEGWPLDIRI GSCTNFKLWKIWGRSAA' ALAHGLKCKSQF\TITFGI RATFERDGYAQILFILLGG ANACGPCIGQWDRKDIK NTIVTSYNRNFTGRRIDAN HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFRLC AD*VFPKGEF*PRGROTY			l			1	
NLADERCHLVPDPGCH EINLSELKPHINOPFTPDL AEVGKVAEKEGWPLDIRI GSCTNFKLWKIWGRSAA' ALAHGUKCKSCOPTITPGI RATTERDGYAQILRDLGG ANACGPCIGGWDRKDIRI NTIVTSYNRNFTGRNDAN HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFRL AD*VFPRGGE*PRGRDTY			l				DSISCTGMATICNMGAEIGATT
EINLSELKPHINGPFTPDL, AEVGKVAEKEGWPLDIRI GSCTNFKLWKIWGRSAA' ALAHGLKCKSQF\TTPGI RATTERIDGYAQILRILGG ANACGPCIGGWBRKDIK NTIVTSYNRNFTGRNDAY HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFRLC AD*VFPKGEF*PRGROTY\			1				SVFPYNHRMKKYLSKTGREDIA
AEVGKVAEKEGWPLDIM; GSCTNFKLWKIWGRSAA' ALAHGUKCKSOFNITTGI RATFERDGYAQUENDLG ANACGPCIGGWDRKDIK NTIVTSYNRNFTGRNDAN HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFRL AD*VFRGGE*PRGROTY			l				NLADEFKDHLVPDPGCHYDQLI
GSCTAFKL WKIWGRSAA: ALAHG\LKCKSQF\TITPGI RATTERDGYAQILRDLGG ANACGFCIGQWDRKDIK; NTIVTSYNRNFTGRNDAH HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFILC AD*VFPKGEF*PRGRDTY			l				EINLSELKPHINGPFTPDLAHPV
ALAHGLKCKSQF\TITPGI RATTERDGYAQILRDLGG ANACGPCIGQWDRKDIK\ NTIVTSYNRNFTGRNDA\ HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFRLC AD*VFPKGE*PRGROTY\		Ì	1			i	AEVGKVAEKEGWPLDIR\VGL\I
RATFERDGYAQUENDLG ANACGPCIGGWDRKDIK NTIVTSYNRNFTGRNDAN HAFVTSPEIVTALAIAGTI PETDYLTGHGWARSFRL AD*VPRKGEFPRGROTY	1		ı				GSCTNFKLWKIWGRSAAVAKQ
ANACGPCIGQWDRKDIKH NTIVTSYNRNFTGRINDAN HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSFRLC AD*VFPKGEF*PRGRDTYG			ĺ		l .		ALAHG\LKCKSQF\TITPGFPRQI\
NTIVTSYNRNFTGRNDAY HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSPRLC AD*VFPKGEF*PRGRDTY	1		i		i		RATFE\RDGYAQILRDLGG\IVL
NTIVTSYNRNFTGRNDAY HAFVTSPEIVTALAIAGTL PETDYLTGHGWARSPRLC AD*VFPKGEF*PRGRDTY			ı				ANACGPCIGQWDRKDIKKGEK
PETDYLTGHGWARSFRLC AD*VFPKGEF*PRGRDTYG			ı		l		NTIVTSYNRNFTG\RNDANPET
PETDYLTGHGWARSFRLC AD*VFPKGEF*PRGRDTYG			l		I		HAFVTSPEIVTALAIAGTLKF\N
AD*VFPKGEF*PRGRDTY			l				PETDYLTGHGWARSFRLGGSRI
			l			l	AD*VFPKGEF*PRGRDTYOHPP
K\DSSGAACWDLSPTSORI			1			1	K\DSSGAACWDLSPTSQRLQLL
	1		l			1	EPFDKWDGKDLEDLOILIKVKG
	1	1	i				KCTTDHISAAGPWLKFRGHLD
			l				NISNNLLIGAINIENGKANSVG\
	1		l		I		NPVTQEFGPAPD\LARYYKKHG
		[1		I	1	I/RWVVIGDENYGEG\SSREHAA
	22200	526.60	L	22410	14	260	
	22290	52658	A	22418	14	260	RLCIGDAGVSPVCGP/CSAGGGP
			l		l		R*LNLEGGEESSSVPRGG/CCSP
	l				i	l	VTATTAPGPCFPK*SDGSGCAE
APDSGE/CS*ALGPHCGD	L	L				L	[APDSGE/CS*ALGPHCGD

SEQ ID	SEO ID NO:	Met	SEO ID NO:	Nucleotide	Nucleotide location of last	Amino acid sequence (X=Unknown,
NO:	of peptide	hnd	in USSN	location of first	codon for last amino acid	*=Stop codon, /=possible nucleotide
	sequence		09/540,217	codon for peptide	of peptide sequence	deletion, \-possible nucleotide insertion)
				sequence		
22291	52659	Α	22419	160	460	RLCIGDAGVSPVCGPLSAGGGP
						R*LNL*GGEESSSVPRGG/CCSP
					ł	VTATTAPGPCFPK*SDGSGCAE
						APDSGNCGAFCALRSPHRHPGP
						KPARERLLLTGL
22292	52660	Α	22420	43	418	SLGCAEQN/FPAIAIQPGMAQEE
						RLSRYQQFKDFQRRILVATNLF
					1	GRGMDIERVNIVFNYDMPEDS
						DTYLHRVARAGRFGTKGLAITF
						VSDENDAKILNDVQDRFEVNV
						AELPEEIDISTYIEQSR
22293	52661	Α	22421	I	592	RFSKYMPSVKVSVFSRGLSIKK
						DEEVLKKNCPHVVVRTRARILA
						LVRNRSFSLQNVKHFVLDECD
						KMLEQLDMRRDVQEIFRLTPHE
						KQCMMF/ERLSRYQQFKDFQRR
					1	ILVATNLFGRGMDIERVNIVFN
						YDMPEDSDTYLHRVARAGRFG
						TKGLAITFVSDENDAKILNDVQ
						DRFEVNVAELPEEIDISTYIEQS
22294	52662	Α	22422	2	575	
22295	52663	В	22423	100	412	
22296	52664	Α	22424	2	441	
22297	52665	Α	22425	682	1032	
22298	52666	Α	22426	I	1324	MAEQDVENDLLDYDEEEEPQA
						PQESTPAPPKKDIKGSYVSIHSS
		l				GFRDFLLKPELLRAIVDCGFEHP
						SEVQHECIPQAILGMDVLCQAK
	1					SGMGKTAVFVLATLQQIEPVN
			ļ			GQSGQVHIFGLHIGARALVISEH
	1					ILKDEGAVEGCGVVQCLMARV
						TVLVMCHTRELAFQISKEYERF
	ļ					SKYMPSVKVSVFFGGLSIKKDE
	1					EVLKKNCPHVVVGTPGRILALV
	i					RNRSFSLKNVKHFVLDECDKM
	1					LEQLDMRR\DVQEIFRLDTTPR
	1	1	1	l	I	KQCMMFSATL\SKDI\RPV\CRK
		l	l	l	1	FMQDPMEVF\VDDETKLTLHG\
				1		LQQYYVKLKTSEKNRSLFDLL\
			1	l		DV\LEFNQV\IIFVKSVQRCMAL
			ŀ			AQLL\VEQNFPAI\AIHRGMAQE
		1	1		i	ERLSRYQQFKDFQRRILVATNL
	1	1	l	1	1	FGRGMDIERVNIVFNYDMPEDS
		l				DTYLHRVARAGRFGTKGLAITF